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19 July 2007

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Mr. John Nebu Department of Toxics Substances Control 5796 Corporate Avenue Cypress, California 90630

Dear Mr. Nebu:

RE: SECOND QUARTER 2007 GROUNDWATER MONITORING REPORT, ASSOCIATED PLATING COMPANY, 9636 ANN STREET SANTA FE SPRINGS, CALIFORNIA

WorleyParsons Komex is pleased to submit the attached Second Quarter 2007 Groundwater Monitoring Report for the Associated Plating Company (APC) located at 9636 Ann Street, in the city of Santa Fe Springs, California. This report presents the results obtained from the groundwater sampling conducted at the APC facility in May 2007. If you have any questions or comments, feel free to call at (310) 547-6349.

Sincerely,

WorleyParsons Komex

Lee Paprochi

Lee Paprocki, P.G. Project Manager

cc: Mr. Michael Evans Associated Plating Corporation 9636 Ann Street Santa Fe Springs, CA 90670

> Mr. Clare Golnick FX-6: Personal Privacy

Mr. Dave Klunk Santa Fe Springs Fire Department Hazardous Materials Division 11300 Greenstone Avenue Santa Fe Springs, CA 90670



#### ASSOCIATED PLATING COMPANY

## Second Quarter 2007 Groundwater Monitoring Report

Associated Plating Company, 9636 Ann Street, Santa Fe Springs, California

H0287D

19 July 2007

#### **Environment & Water Resources**

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Lee Paprocki, a California Professional Geologist, as an employee of WorleyParsons Komex, with expertise in contaminant assessment and remediation, and groundwater hydrology, has reviewed the report with the title **Second Quarter 2007 Groundwater Monitoring Report**, **APC Facility**, **9636 Ann Street**, **Santa Fe Springs**, **California**. Her signature and stamp appear below.

LEE PAPROCKI

Lee Paprocki

Professional Geologist 7749



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#### CONTENTS

1.	INTRODUCTION	1
1.1	Geology and Hydrogeology	1
	1.1.1 Regional Geology and Hydrogeology	1
	1.1.2 Site Geology	2
	1.1.3 Site Hydrogeology	3
1.2	Site Conceptual Model	3
2.	GROUNDWATER SAMPLING	4
2.1	Groundwater Gauging and Sampling Procedures	4
2.2	Quality Assurance/Quality Control Sampling	4
2.3	Laboratory Analyses	4
3.	GROUNDWATER RESULTS	6
3.1	Groundwater Results	6
3.2	OA/QC Analytical Results	7
4.	CONCLUSIONS AND RECOMMENDATIONS	8
4.1	Conclusions	8
4.2	Recommendations	8
5.	CLOSURE	9
6	REFERENCES	10



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ASSOCIATED PLATING COMPANY
SECOND QUARTER 2007 GROUNDWATER MONITORING REPORT
ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

#### Tables

- 1 Monitoring Well Construction Details
- 2 Groundwater Elevations
- 3 TPH Carbon Range Groundwater Results
- 4 VOC Groundwater Results
- 5 Field Quality Assurance/Quality Control Sample Results

#### **Figures**

- 1 Site Location Map
- 2 Site Vicinity Map
- 3 Site Plan Showing Borehole and Monitoring Well Locations
- 4 Site Conceptual Model and Proposed Operable Units
- 5 Potentiometric Surface Contour Map May 16, 2007
- 6 TPH Concentrations in Groundwater May 2007
- 7 Select Chlorinated Solvent Concentrations in Groundwater May 2007

#### **Appendices**

- Monitoring Well Sampling Forms
- 2 Waste Manifest
- 3 Laboratory Analytical Report



### LIST OF ACRONYMS AND ABBREVIATIONS

APC Associated Plating Company

bgs below ground surface

cis-1,2-DCE cis-1,2-dichloroethene

COC chain-of-custody

DTSC Department of Toxic Substances Control

DWR Department of Water Resources

ft/ft feet per foot

LNAPL light non-aqueous phase liquid

MSL mean sea level

ug/L micrograms per liter

mg/L milligrams per liter

ml milliliter

QA quality assurance

QC quality control

PCE tetrachloroethene

TCE trichloroethene

TPH total petroleum hydrocarbons

trans-1,2-DCE trans-1,2-dichloroethene

VC vinyl chloride

VQA volatile organic analysis

VOCs volatile organic compounds



#### 1. INTRODUCTION

This document has been prepared by WorleyParsons Komex on behalf of the Associated Plating Company (APC). The report summarizes the groundwater sampling conducted at 9636 Ann Street, Santa Fe Springs, California (herein referred to as the Site). The Site is located in Santa Fe Springs, California at an elevation of approximately 150 feet above mean sea level (MSL) with a local topographic gradient of less than 20 feet per mile to the southeast (Figures 1 and 2).

Monitoring wells, MW-1 through MW-4, were installed at the Site on April 5 and 6, 2006 (Table 1) and were first sampled a week later (Figure 3). Groundwater sampling and analysis completed at the Site during April 2006 identified the presence of chlorinated solvents and petroleum hydrocarbons.

The Department of Toxic Substances Control (DTSC), in their letter dated December 14, 2005 and in a meeting on August 22, 2006, requested that quarterly groundwater sampling be continued for one year. Therefore, second quarter groundwater sampling was conducted in May 2007 and is summarized in this report.

#### 1.1 Geology and Hydrogeology

#### 1.1.1 Regional Geology and Hydrogeology

Los Angeles County is underlain by the Los Angeles County Coastal Plain and is bounded by the Santa Monica Mountains to the north, the low lying Elysian, Repetto, Merced, and Puente Hills to the northeast, a political boundary coinciding with the boundary between Los Angeles County and Orange County to the southeast, and the Pacific Ocean to the southwest. Alluvial fans formed by the Los Angeles, Rio Hondo, and San Gabriel Rivers systems have coalesced to form the Downey Plain, which represents the largest area of recent alluvial deposition in the Coastal Plain. The Downey Plain is bordered by the La Brea, Montebello, and Santa Fe Spring Plains, and the Coyote hills to the north and northeast, the Newport Inglewood uplift to the southwest, and the Coastal Plain of Orange County to the southeast (DWR, 1961). The Downey Plain slopes gently to the south with an average gradient of less than 18 feet per mile. The Site is located between the Downey Plain and the Santa Fe Springs Plain. The Santa Fe Springs Plain is located south of Whittier and east of the San Gabriel River, in the area of the City of Santa Fe Springs. The Santa Fe Springs Plain is a low, slightly rolling topographic feature and represents a continuation of the Coyote Hills Uplift to the southeast.



The Coastal Plain of Los Angeles County is a deep groundwater reservoir filled by unconsolidated alluvial sands, gravels, clays, and silts. Fresh-water aquifers extend to depths of over 2,000 feet. The California Department of Water Resources (DWR) divided the coastal plain into four groundwater basins: the Santa Monica Basin, the West Coast Basin, the Hollywood Basin, and the Central Basin (DWR, 1961). The Site lies within the Central Basin, which is further divided into four parts for descriptive purposes: the Los Angeles Forebay Area, the Montebello Forebay Area, the Whittier Area, and the Central Basin Pressure Area.

The Site is located in the Central Basin Pressure Area. The Central Basin Pressure Area is called a "pressure area" because the aquifers within it are confined by aquicludes over most of the area. The major regional aquitards and aquifers beneath the Site occur in the Recent Alluvium, the Upper Pleistocene Lakewood Formation, and the Lower Pleistocene San Pedro Formation. Depth intervals for the major regional hydro-stratigraphic units (aquitards and aquifers) in the Site vicinity are presented in the table below:

Regional Hydro-stratigraphic Unit	Formation	Approximate Depth Intervals (feet below ground surface)
Bellflower Aquitard	Recent Alluvium	0 – 30
Gaspur	Recent Alluvium	30 – 65
Gage	Lakewood	65 – 110
Hollydale-Jefferson	San Pedro	110 - 130
Lynwood	San Pedro	130 – 210
Silverado	San Pedro	210 – 360
Sunnyside	San Pedro	360 - <mark>61</mark> 0

#### 1.1.2 Site Geology

The Site is underlain with artificial fill composed primarily of silt from the ground surface to an approximate depth of 7 feet below ground surface (bgs). At approximately 7 feet bgs a concrete pad is encountered, which is approximately four inches thick. Underlying the concrete pad is a silt and clay layer that extends to approximately 25 feet bgs. Below the silt and clay layer is a sand and gravelly



sand layer that extends to at least 48 feet bgs (Figure 4). Both the silt and clay layer and the sand and gravel layer correspond to the Recent Alluvium.

#### 1.1.3 Site Hydrogeology

In April 2006, first groundwater was detected between 34 and 38 feet bgs (approximately 112 feet MSL) and corresponds to the Gaspur Aquifer. In May 2007, water levels were between 33.26 and 37.32 feet bgs. Groundwater flow varies between the southwest and south-southeast at an approximate gradient of 0.003 feet per foot (ft/ft).

#### 1.2 Site Conceptual Model

In accordance with the Site conceptual model developed below, the subsurface at the Site and Site vicinity was previously divided into three operable units: Operable Unit 1 (OU-1), Operable Unit 2 (OU-2), and Operable Unit 3 (OU-3) (Figure 4). OU-1 consists of fill material underlying the Site from ground surface to the top of the buried concrete pad (approximately 7 feet bgs). OU-2 consists of on-Site soils and the first groundwater zone, from the base of the concrete pad to approximately 50 feet bgs. OU-3 consists of the off-Site soils and the first groundwater zone.

Fill material in OU-1 is impacted by petroleum hydrocarbons (C7 to C36), fuel volatile organic compounds (VOCs), probably representing pre-existing contamination from the former storage tank, and chlorinated solvent compounds, consistent with releases of tetrachloroethene (PCE) from the APC facility.



#### 2. GROUNDWATER SAMPLING

#### 2.1 Groundwater Gauging and Sampling Procedures

Well construction details for the four groundwater monitoring wells (MW-1 through MW-4) are included in Table 1. On May 16, 2007, the four monitoring wells were gauged, then purged and sampled. Following gauging, the wells were purged of at least three well volumes of water, allowed to recover, and then sampled. Groundwater gauging and sampling field notes are provided in Appendix 1.

#### 2.2 Waste Disposal

Waste generated as part of this investigation included purged groundwater and decontamination water used during sampling. Water was contained in two Department of Transportation (DOT) approved 55-gallon drums and temporarily stored at the Site prior to disposal. On June 8, 2002, groundwater and decontamination water were removed from the Site and transported to a suitable off-Site disposal facility by a licensed non-hazardous waste hauler. The waste manifest is provided in Appendix 2.

#### 2.3 Quality Assurance/Quality Control Sampling

Field quality assurance/quality control (QA/QC) samples were collected on May 16, 2007, during groundwater sampling activities. An equipment rinsate blank was collected from the groundwater electric pump by running distilled water through the pump hose into two 40-milliliter (ml) volatile organic analysis (VOA) vials. A field blank was collected by filling two 40 ml VOA vial with distilled water, leaving them exposed to ambient air during collection of the equipment blank, and then sealing them. A trip blank, consisting of one sealed 40 ml VOA vial filled with distilled water, was obtained from the laboratory and kept in the ice-chest throughout the day to evaluate if there was any introduction of VOCs during storage and transportation.

#### 2.4 Laboratory Analyses

Monitoring well groundwater samples and OA/QC samples were labeled, placed in an ice chest, and delivered under chain-of-custody (COC) to Sierra Analytical Inc. of Laguna Hills, California, within 24 hours of collection. The samples were analyzed for the following:



- Total petroleum hydrocarbons (TPH), ranging from C7 to C36, in accordance with USEPA Method 8015B; and
- VOCs in accordance with USEPA Method 8260B.



#### 3. GROUNDWATER RESULTS

#### 3.1 Groundwater Results

Groundwater depths in the four monitoring wells ranged from 33.26 to 37.32 feet bgs (113.67 to 113.45 feet MSL) (Table 2). During this sampling event, groundwater flow was generally towards the southwest at a gradient of 0.003 ft/ft (Figure 5).

A sheen of light non-aqueous phase liquid (LNAPL) was observed on the product level probe in two monitoring wells: MW-3 and MW-4.

Groundwater gauging and laboratory analytical results are provided in Tables 2, 3 and 4. The complete laboratory report, including COC and laboratory QA/QC analyses, is provided in Appendix 3.

TPH groundwater results are presented in Table 3. Petroleum hydrocarbons were detected in groundwater collected from all four monitoring wells. The lateral distribution of TPH in groundwater for this sampling event is depicted in Figure 6. Qverall, TPH concentrations in groundwater have decreased from April 2006 to May 2007. Within this year of groundwater monitoring, TPH concentrations have decreased from April 2006 to November 2006 and recently increased from November 2006 to May 2007.

VOC groundwater results are presented in Table 4 and Figure 7. Historical groundwater results are included in Table 4.

PCE has consistently not been detected above the laboratory reporting limits in groundwater collected from upgradient well MW-1. Trichloroethene (TCE) concentrations detected in groundwater collected from well MW-1 have increased significantly from 1.3 micrograms per liter (ug/L) in April 2006 to 41 ug/L in May 2007. Vinyl chloride (VC) concentrations detected in groundwater collected from well MW-1 have decreased from 20 ug/L in April 2006 to 13 ug/L in May 2007. Cis-1,2-Dichloroethene (cis-1,2-DCE) and trans-1,2 - Dichloroethene (trans-1,2-DCE) concentrations in groundwater from well MW-1 have remained fairly constant at approximately 5 ug/L.

PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE have consistently not been detected above the laboratory reporting limits in groundwater collected from well MW-2. VC concentrations have decreased from 50 ug/L in April 2006 to 24 ug/L in May 2007.



PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE have consistently not been detected in groundwater collected from well MW-3. VC concentrations have decreased slightly in groundwater collected from well MW-3, from 53 ug/L in April 2006 to 32 ug/L in May 2007.

PCE concentrations in groundwater collected from well MW-4 have increased in groundwater, from 2.7 ug/L in April 2006 to 15 ug/L in May 2007. This quarter, TCE was detected in groundwater at a concentration of 4.0 ug/L. Trans-1,2-DCE was not detected above the laboratory reporting limit. Cis-1,2-DCE was detected in groundwater collected during the last three quarterly events, at concentrations between 1 and 2 ug/L. VC concentrations collected in groundwater from well MW-4 have consistently decreased every quarter, from a maximum detected concentration of 57 ug/L in April 2006 to a minimum concentration of 24 ug/L in May 2007.

#### 3.2 QA/QC Analytical Results

The results of QA/QC sample analyses are provided in Table 5. A review of the laboratory analytical report indicates that all internal laboratory QA/QC calibration checks, matrix spike, and matrix spike duplicate recoveries were within acceptable ranges (Appendix 3). VOCs were not detected above the laboratory reporting limit in the field or trip blank. Despite proper decontamination procedures, two VOCs were detected in the equipment blank. 1,2,3-Trichloropropane and TCE were detected in the equipment rinsate blank at concentrations of 1.9 ug/L and 1.8 ug/L, respectively. 1,2, 3-Trichloropropane has not been detected in groundwater beneath the Site. The TCE detection of 1.8 ug/L is significantly less than maximum detected concentration of TCE (41 ug/L), but is of the same order as the minimum detected concentration of 4.0 ug/L of TCE. Therefore, the detection of 4.0 ug/L in well MW-4 is likely an estimate. For any future groundwater sampling, additional decontamination procedures will be performed.



#### 4. CONCLUSIONS AND RECOMMENDATIONS

#### 4.1 Conclusions

In May 2007, groundwater flow beneath the Site was towards the southwest at a gradient of 0.003 ft/ft and depth to groundwater ranged from to 33.26 to 37.32 feet bgs (113.67 to 113.45 feet MSL).

TCE concentrations have increased from April 2006 to May 2007 in groundwater collected from the upgradient well MW-1. VC concentrations in groundwater from well MW-1 have generally decreased. Generally, chlorinated solvent concentrations in downgradient groundwater have remained fairly constant. PCE, TCE, cis-1,2-DCE, and trans-1,2-DCE have consistently not been detected in groundwater collected from wells MW-2 and MW-3. Chlorinated solvent concentrations in groundwater collected from well MW-4 have remained fairly constant with the exception of PCE, which has increased, and VC which has decreased.

#### 4.2 Recommendations

In accordance with the DTSC's request, a full year of quarterly groundwater sampling events have been conducted at the Site. Based on the contaminant trends, it is recommended that a year of semi-annual groundwater sampling be conducted. Based on the previous sampling schedule, the proposed semi-annual sampling schedule would consist of groundwater sampling in November 2007 and May 2008. Semi-annual groundwater reports would be submitted by January 31, 2008 and July 31, 2008, respectively.



#### 5. CLOSURE

We trust that this report satisfies your current requirements and provides suitable documentation for your records. If you have any questions or require further details, please contact the undersigned at any time.

Respectfully Submitted:

WorleyParsons Komex

Lindsay Masters

Staff Geologist

Senior Review by

Lee Paprocki, PG

Project Manager



#### REFERENCES

DWR, 1961. Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County. Bulletin No. 104. Appendix A Ground Water Geology. State of California Department of Water Resources Southern District. Dated June 1961.



Table 1
Monitoring Well Construction Details
Associated Plating Company

Well ID	Drilling Method	Installation Date	Well Casing Diameter (inches)	Latitude	Longitude	Wellhead Elevation (feet amsl)	Top of Casing Elevation (ft amsl)	Well Depth (feet bgs)	Well Depth (feet amsl)	Screen Slot Size (inches)	Screened Interval (feet bgs)	Screened Interval (feet amsi)
MW-1	HSA	4/5/2006	2	33.9527753	-118.0593	147.36	146.93	43.0	103.9	0.01	33 to 43	114.35 to 104.35
MW-2	HSA	4/5/2006	2	33.9524570	-118.0592	149.81	149.41	47.0	102.4	0.01	37 to 47	112.79 to 102.79
MW-3	HSA	4/6/2006	2	33.9523123	-118.0593	151.06	150.67	47.0	103.7	0.01	37 to 47	114.04 to 104.04
MW-4	HSA	4/6/2006	2	33.9522795	-118.0595	151.13	150.77	47.0	104.1	0.01	37 to 47	114.13 to 104.13

1) amsl = above mean sea level

2) bgs = below ground surface

3) HSA = hollow stem auger

Table 2
Groundwater Elevations
Associated Plating Company

Well ID	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet btoc)	Product Thickness (feet)	Groundwate Elevation (feet amsl)
MW-1	146.93	04/12/06	34.33	Sheen	112.60
		08/31/06	33.03	Sheen	113.90
		11/13/06	33.55	Sheen	113.38
		02/14/07	33.80	Sheen	113.13
		05/16/07	33.26	0.00	113.67
MW-2	149.41	04/12/06	36.87	0.00	112.54
		08/31/06	35.62	Sheen	113.79
		11/13/06	36.05	Sheen	113.36
		02/14/07	36.29	Sheen	113.12
		05/16/07	35.82	0.00	113.59
MW-3	150.67	04/12/06	38.20	Sheen	112.47
		08/31/06	36.89	0.00	113.78
		11/13/06	37.38	0.01	113.30
		02/14/07	37.62	Sheen	113.05
		05/16/07	37.05	Sheen	113.62
MW-4	150.77	04/12/06	38.36	Sheen	112.41
		08/31/06	37.04	Sheen	113.73
		11/13/06	37.54	Sheen	113.23
		02/14/07	37.79	Sheen	112.98
		05/16/07	37.32	Sheen	113.45

<sup>1)</sup> bgs = Below ground surface

<sup>2)</sup> amsl = above mean sea level

<sup>3)</sup> btoc = below top of casing

<sup>4)</sup> Groundwater elevations are corrected for the presence of measurable free product using a specific gravity of 0.88

Table 3
TPH Carbon Range Groundwater Results
Associated Plating Company

		MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4
Analyte	Units	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07
<c8< td=""><td>mg/L</td><td>&lt;0.10</td><td>&lt;0.10</td><td>&lt;0.010</td><td>&lt;0.20</td><td>&lt;0.010</td><td>&lt;1.0</td><td>0.11</td><td>0.014</td><td>&lt; 0.20</td><td>&lt;0.20</td><td>&lt;1.0</td><td>0.051</td><td>0.033</td><td>&lt;0.20</td><td>&lt;0.20</td><td>&lt;1.0</td><td>0.084</td><td>0.060</td><td>&lt;0.20</td><td>&lt;0.20</td></c8<>	mg/L	<0.10	<0.10	<0.010	<0.20	<0.010	<1.0	0.11	0.014	< 0.20	<0.20	<1.0	0.051	0.033	<0.20	<0.20	<1.0	0.084	0.060	<0.20	<0.20
C8-C9	mg/L	< 0.10	< 0.10	< 0.010	< 0.20	< 0.010	<1.0	0.040	< 0.010	< 0.20	< 0.20	<1.0	0.014	< 0.010	< 0.20	<0.20	<1.0	0.031	0.010	< 0.20	< 0.20
C9-C10	mg/L	< 0.10	<0.10	0.010	< 0.20	0.030	1.1	0.073	<0.010	< 0.20	<0.20	<1.0	0.030	0.018	<0.20	<0.20	<1.0	0.056	0.040	< 0.20	< 0.20
C10-C11	mg/L	0.33	0.13	0.029	< 0.20	0.096	2.0	0.16	0.015	< 0.20	<0.20	<1.0	0.076	0.089	0.82	<0.20	<1.0	0.13	0.13	< 0.20	< 0.20
C11-C12	mg/L	0.66	0.20	0.047	1.3	0.20	2.8	0.14	0.028	0.98	< 0.20	<1.0	0.087	0.091	1.2	0.40	<1.0	0.17	0.12	1.2	0.40
C12-C14	mg/L	5.1	1.2	0.28	1.2	0.79	5.9	0.70	0.17	1.4	1.0	<1.0	0.26	0.44	3.1	2.5	1.8	0.40	0.68	1.4	2.4
C14-C16	mg/L	6.7	1.6	0.42	1.7	0.87	5.8	0.76	0.16	1.5	1.8	1.5	0.34	0.43	2.5	2.5	5.4	0.56	0.46	1.4	2.4
C16-C18	mg/L	6.8	1.6	0.50	0.70	0.79	5.0	0.63	0.14	0.72	1.4	<1.0	0.24	0.37	1.9	1.8	4.4	0.39	0.42	1.2	1.9
C18-C20	mg/L	4.1	0.94	0.29	1.1	0.60	3.6	0.54	0.18	1.1	1.7	1.1	0.19	0.27	1.6	2.0	4.0	0.27	0.27	0.60	2.0
C20-C24	mg/L	12	2.4	0.71	1.8	1.4	7.0	1.1	0.083	1.3	2.2	<1.0	0.29	0.34	2.9	2.9	5.2	0.48	0.48	1.6	2.7
C24-C28	mg/L	16	4.2	0.84	2.0	1.7	7.1	1.3	0.074	1.7	3.7	2.6	0.31	0.32	3.1	3.7	9.6	0.57	0.43	1.5	3.4
C28-C32	mg/L	12	3.9	0.62	2.9	0.78	10	1.1	0.16	2.6	7.0	35	0.23	0.27	4.0	5.9	27	0.46	0.30	2.4	5.9
>C32	mg/L	0.65	0.28	0.037	0.94	0.040	3.5	0.046	0.010	0.84	0.82	4.3	0.015	0.017	1.4	0.66	2.6	0.030	0.019	1.1	0.64
Total C7-C36	mg/L	65	16	3.8	14	7.3	54	6.7	1.0	12	20	46	2.1	2.7	23	22	60	3.6	3.4	12	22

<sup>1)</sup> TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B

<sup>2)</sup> mg/L = milligrams per liter

<sup>3) &</sup>lt;0.10 = compound not detected at or above the indicated laboratory reporting limit

<sup>4)</sup> Bold type indicates compound was detected.

Table 4
VOC Groundwater Results
Associated Plating Company

		Location MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4
Analyte	Units	Date 4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	311/13/0	6 2/14/07	5/16/07
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	1.5	<1.0
1,1,2-Trichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L	< <u>5.0</u>	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	23	3.4	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.3	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorololuene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Phenylbutane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	16	12	8.9	11	14	16	11	8.1	14	16	16	13	9.0	16	15
4-Chlorololuene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	ug/L	1.3	<1.0	<1.0	<1.0	<1.0	2.3	3.1	2.8	3.0	2.6	2.0	3.7	3.4	2.9	2.1	3.6	7.6	6.4	6.9	6.2
Bromobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Butylbenzene,n-	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	ug/L	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
CFC-12	ug/L	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomothane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	ug/L	5.5	8.4	8.3	15	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.1	2.2
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L	3.2	1.8	2.0	2.4	2.3	4.1	3.2	2.9	3.4	4.1	1.4	<1.0	<1.0	<1.0	4.1	4.1	<1.0	2.6	4.3	4.0
Dibromomethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L	1	<1.0					<1.0	-				<1.0					<1.0	-		

Table 4
VOC Groundwater Results
Associated Plating Company

		Location MW-1	MW-1	MW-1	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4
Analyte	Units	Date 4/12/06	8/31/06	11/13/0	6 2/14/07	5/16/07	4/12/06	8/31/0	511/13/06	52/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	3.1	1.1	1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0
Ethyl-tert-butyl Ether (ETBE)	ug/L		<1.0					<1.0	-		<del>-</del>	+	<1.0					<1.0		<del>-</del>	
Hexachloro-1,3-Butadiene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/L	1.9	<1.0	<1.0	<1.0	<1.0	75	57	44	50	53	83	74	50	76	68	86	87	59	81	78
Methylene Chloride	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-Butyl Ether (MTBE)	ug/L	8.9	2.0	1.0	<1.0	<1.0	3.5	3.0	2.4	1.9	1.9	1.9	2.2	1.8	1.4	1.1	3.0	2.8	2.2	1.3	1.5
Naphthalene	ug/L	1.6	<1.0	<1.0	<1.0	<1.0	16	12	4.6	1.9	<1.0	46	8.7	2.6	2.1	2.2	4.5	1.9	<1.0	<1.0	<1.0
Propylbenzene,n-	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	9.4	3.5	3.1	3.6	3.7	22	5.3	4.8	6.0	4.4	10	8.9	7.0	6.1	5.2
Styrene (Monomer)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-amyl-methyl Ether (TAME)	ug/L		<1.0					<1.0	-				<1.0					<1.0			
terl-butyl Alcohol (TBA)	ug/L		<5.0					<5.0	-		-		<5.0					<5.0			
tert-Butylbenzene	ug/L	1.6	<1.0	<1.0	<1.0	1.3	1.9	1.7	1.4	1.6	2.4	<1.0	3.4	1.2	1.8	<1.0	<1.0	1.4	1.2	2.1	1.7
Telrachloroethene (PCE)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	1.2	3.6	5.8	15
Toluene	ug/L	<1.0	<1.0	15	<1.0	<1.0	<1.0	<1.0	10	<1.0	<1.0	<1.0	1.6	8.5	<1.0	<1.0	<1.0	<1.0	6.6	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L	5.2	3.6	4.0	9.2	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tribromomethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	ug/L	1.3	21	28	55	41	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4.0
Vinyl Chloride (VC)	ug/L	20	9.9	6.6	7.4	13	50	47	21	29	24	53	58	34	44	32	57	54	36	34	24
Xylene, O-	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene, P-, M-	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	28	3.1	1.6	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

<sup>1)</sup> VOC = volatile organic compounds analyzed using EPA Method 8260B

<sup>2)</sup> ug/L = micrograms per liter

<sup>3) &</sup>lt;1.0 = compound not detected at or above the indicated laboratory reporting limit

<sup>4) -- =</sup> not analyzed

<sup>5)</sup> Bold type indicates compound was detected.



Table 5
Field Quality Assurance/Quality Control Sample Results
Associated Plating Company

		Sample Type		E	quipment Bla	ank				Field Blank					Trip Blank		
		Sample Date	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07
nalyte	Units	Sample ID	EB-41206	EB083106	EB-111306	EB-021407	EB-51607	FB-41206	FB083106	FB-111306	FB-021407	FB-51607	TB-41206	TB083106	TB-111306	TB-21407	TB-51607
PH - Carbon Range								, - , ,									
C8	mg/L		<0.010	<0.010	< 0.010			< 0.010	< 0.010	< 0.010	-		_				
8-C9	mg/L		<0.010	<0.010	<0.010	_	_	<0.010	<0.010	<0.010	_	-	_				-
9-C10	mg/L		<0.010	<0.010	<0.010	_		<0.010	<0.010	<0.010	_	4	_				-
10-C11	mg/L		<0.010	<0.010	<0.010	_	_	<0.010	< 0.010	<0.010	7 <b>-</b> 7		-				
11-C12	mg/L		<0.010	<0.010	<0.010	_	_	<0.010	<0.010	<0.010	_		_				
12-C14	mg/L		<0.010	<0.010	<0.010	_	_	<0.010	<0.010	<0.010	-	-					-
14-C16	mg/L		<0.010	<0.010	<0.010	_		<0.010	<0.010	<0.010	-	-	-				
16-C18	mg/L		<0.010	<0.010	0.038	_		<0.010	<0.010	<0.010	_						
C18-C20	mg/L		<0.010	<0.010	0.048	_		<0.010	<0.010	<0.010	-		_				
20-C24	mg/L		<0.010	<0.010	0.089	_	_	<0.010	<0.010	<0.010	_		_				-
24-C28	mg/L		<0.010	<0.010	0.064	_		<0.010	<0.010	<0.010	_		_				
228-C32	mg/L		<0.010	<0.010	0.080			<0.010	<0.010	<0.010							
C32	mg/L		<0.010	<0.010	<0.010			<0.010	<0.010	<0.010							
olal C7-C36	mg/L		<0.010	<0.050	0.32			<0.050	<0.010	<0.050				-			
OCs	myrc		\U.UUU	NU.UAU	0.02	_		VI.UKIU	\u.UJU	NO.OKAU	_		-	-	-		
,1,1,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,1,1-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,1,2,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,1-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,1-Dichloroethylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,1-Dichloropropylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2,3-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2,3-Trichloropropane	ug/L		<5.0	<1.0	<1.0	<1.0	1.9	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
,2,4-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2,4-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2-Dibromo-3-Chloropropane (DBCP)	ug/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
,2-Dibromoethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2-Dichlorobenzene			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	ug/L			<1.0	<1.0		<1.0	<1.0	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2-Dichloropropane	ug/L		<1.0	<1.0		<1.0				<1.0	<1.0						
,3,5-Trimethylbenzene ,3-Dichlorobenzene	ug/L				<1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	ug/L		<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
,3-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,4-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
,2-Dichloropropane Chlorotekiono	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
-Chiorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
-Phenylbutane -Chlerotekope	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
-Chiorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
enzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
romobenzene romodiahloremothana	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
romodichloromethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
romomethane	ug/L		<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
utylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
arbon Tetrachloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
FC-11	ug/L		<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
FC-12	ug/L		<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
chlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
hlorobromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0



Table 5
Field Quality Assurance/Quality Control Sample Results
Associated Plating Company

		Sample Type		E	quipment Bla	ink				Field Blank					Trip Blank		
		Sample Date	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07	4/12/06	8/31/06	11/13/06	2/14/07	5/16/07
Analyte	Units	Sample ID	EB-41206	EB083106	EB-111306	EB-021407	EB-51607	FB-41206	FB083106	FB-111306	FB-021407	FB-51607	TB-41206	TB083106	TB-111306	TB-21407	TB-51607
Chlorodibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L		<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L		<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L			<1.0		_	· <del>-</del>		<1.0		-		_	<1.0			
Ethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
thyl-tert-butyl Ether (ETBE)	ug/L			<1.0		_			<1.0		-		-	<1.0			
lexachloro-1,3-Butadiene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sopropylbenzene	ug/L		<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-terl-Butyl Ether (MTBE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Propylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
erl-amyl-methyl Ether (TAME)	ug/L			<1.0		_			<1.0		-		-	<1.0			
erl-butyl Alcohol (TBA)	ug/L			<5.0		-	0-0		<5.0		-		-	<5.0			
ert-Bulylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fetrachloroethene (PCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Foluene	ug/L		<1.0	<1.0	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
rans-1,2-Dichloroethene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
rans-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ribromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
richloroethene (TCE)	ug/L		<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
inyl Chloride (VC)	ug/L		<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
(ylene, O-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Kylene, P-, M-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

7) - = not analyzed

157437-1.pdf Page 2 of 2

<sup>1)</sup> TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B

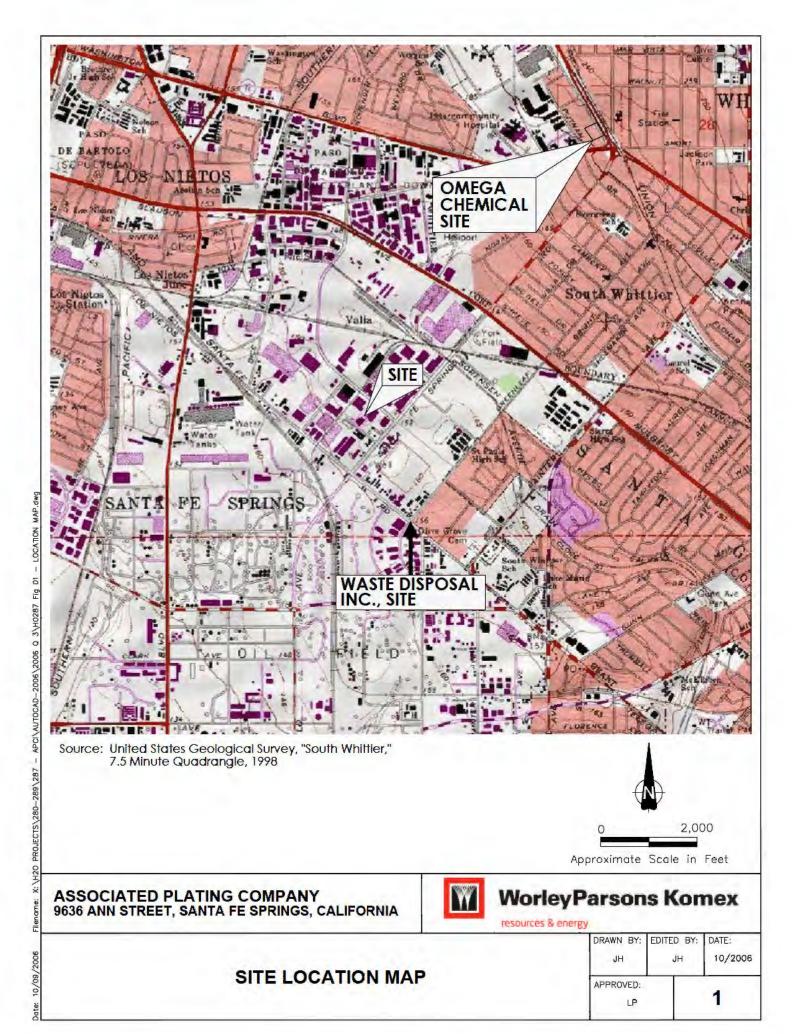
<sup>2)</sup> VOCs = volatile organic compounds analyzed using EPA Method 8260B

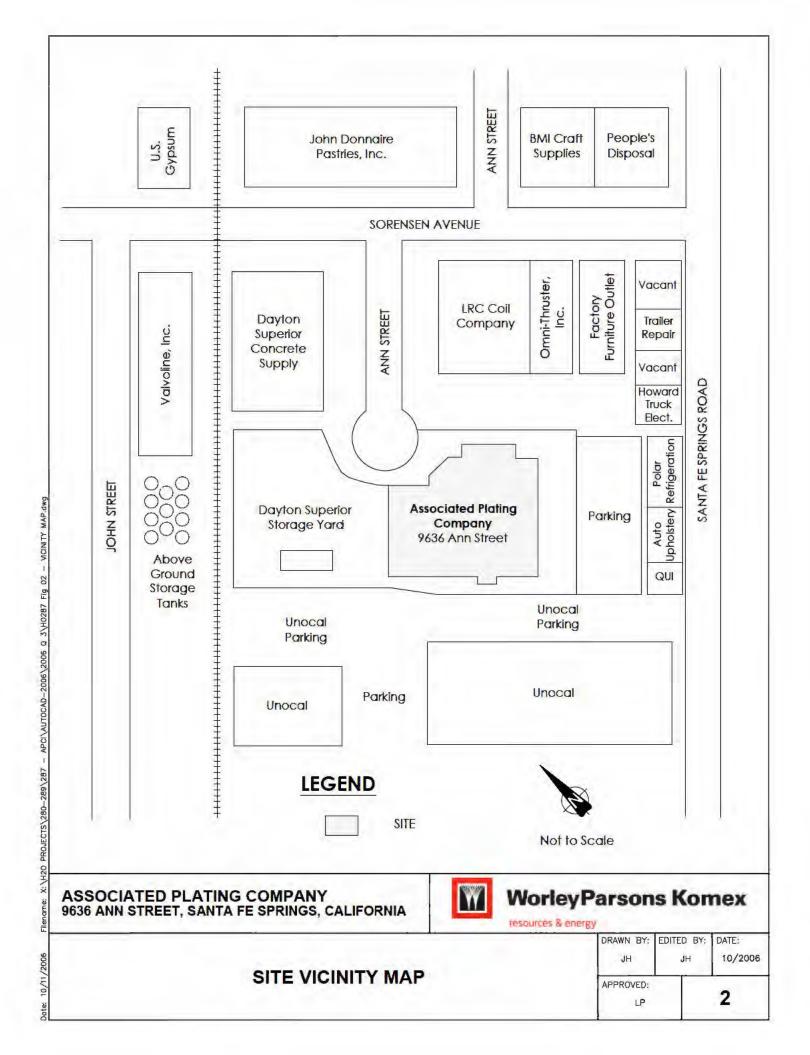
<sup>3)</sup> mg/L = milligrams per liter

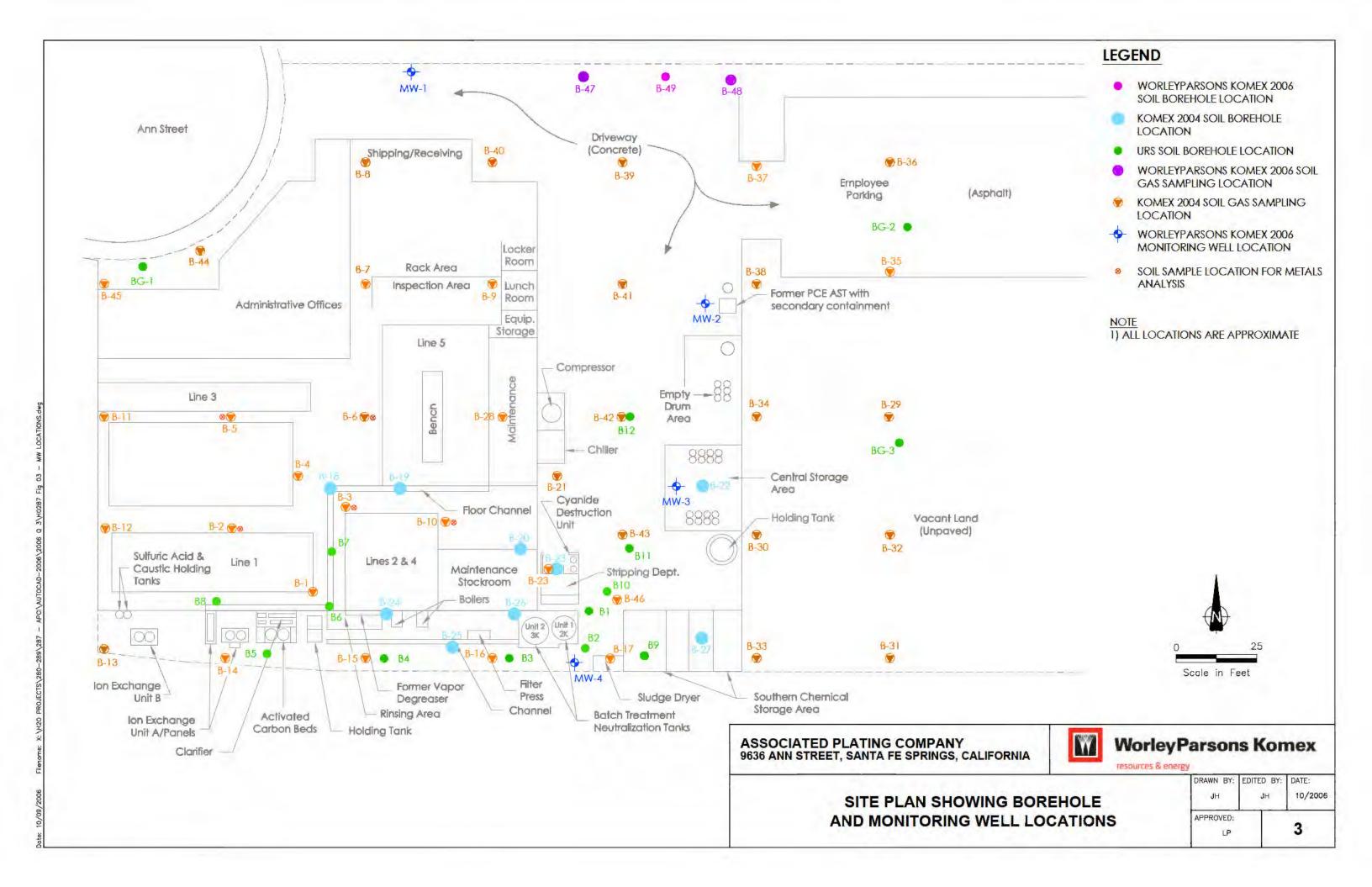
<sup>4)</sup> ug/L = micrograms per liter

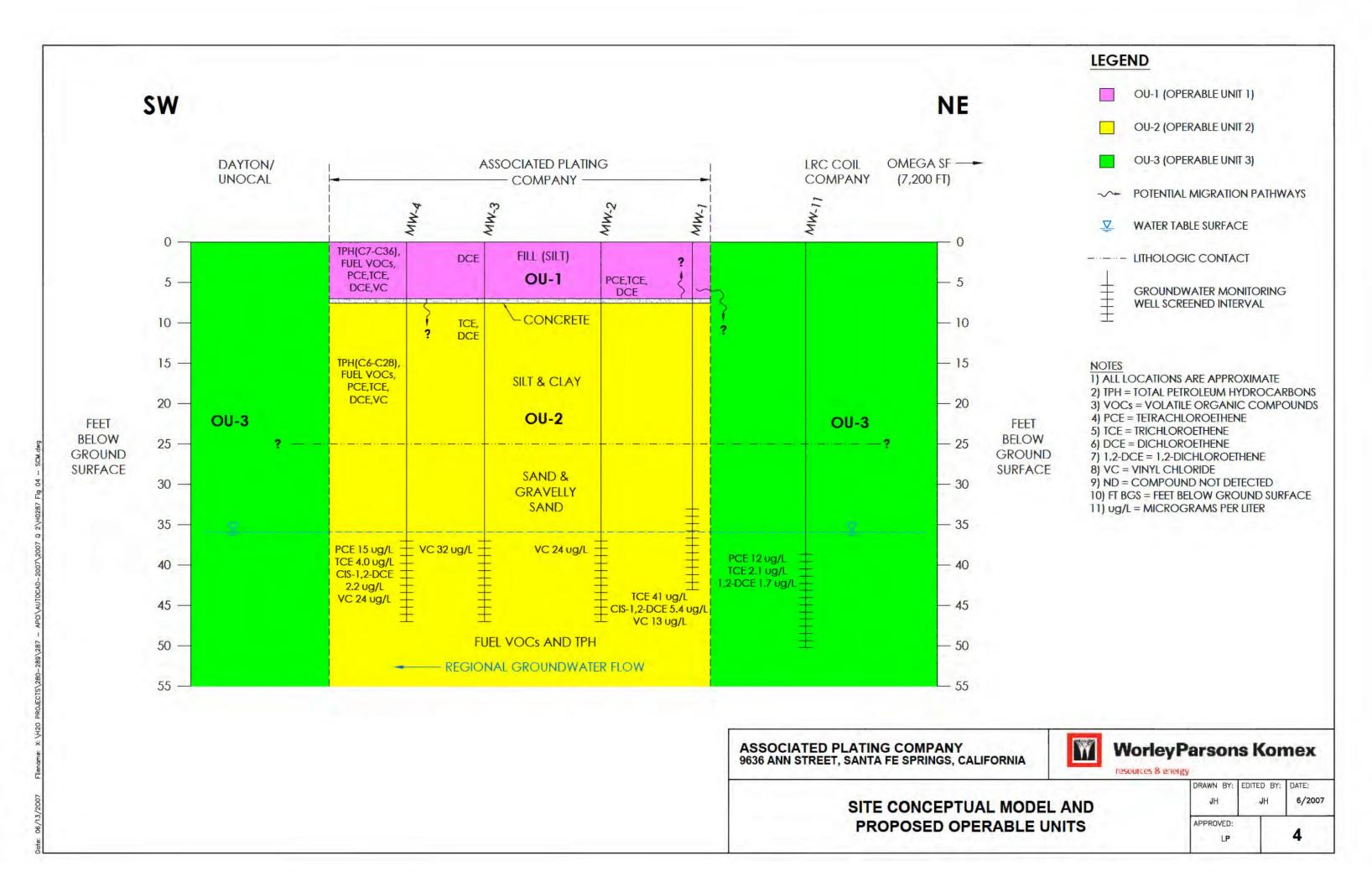
<sup>5) &</sup>lt;1.0 = compound not detected at or above the indicated laboratory reporting limit

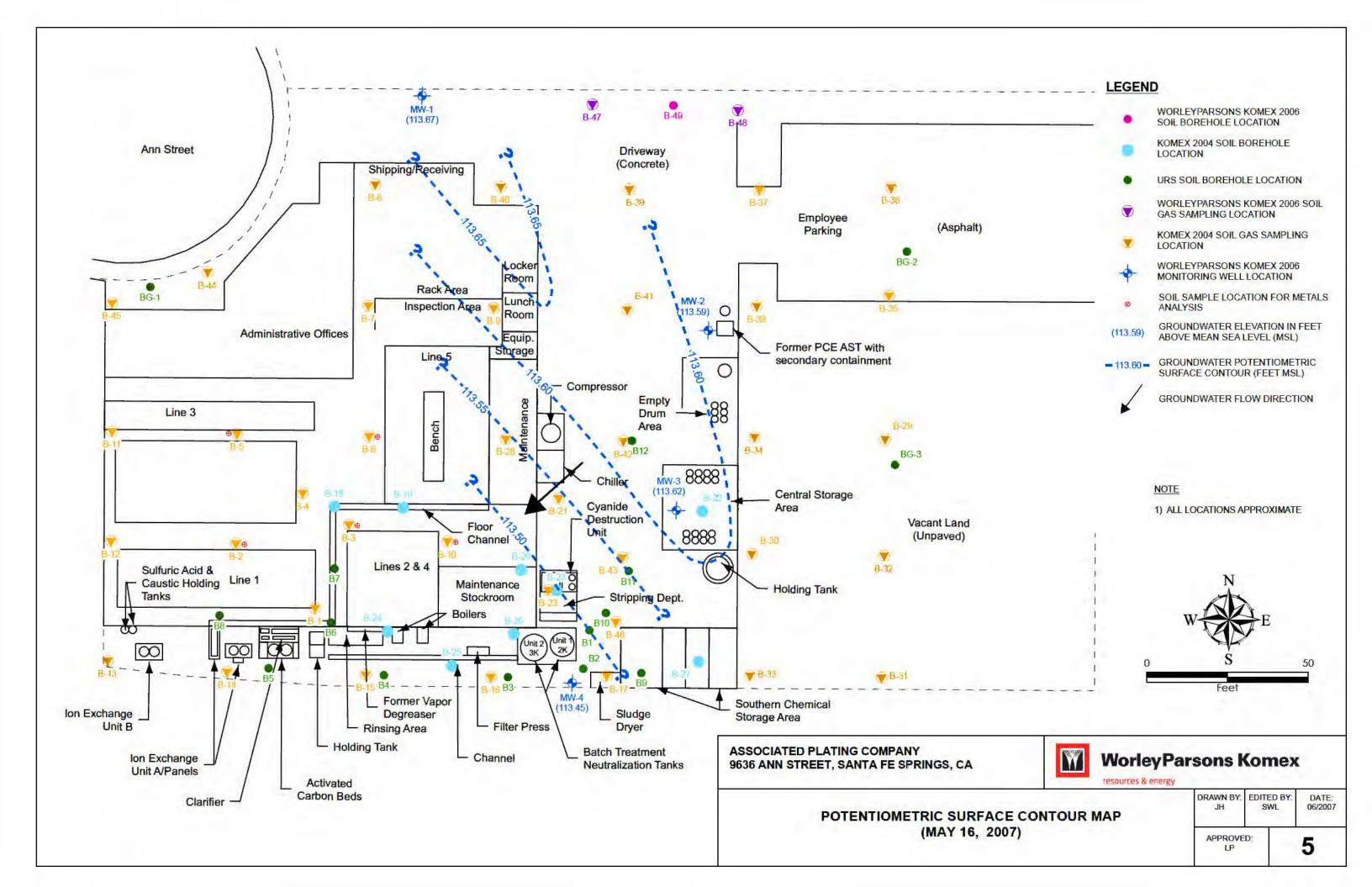
<sup>6)</sup> Bold type indicates compound was detected.

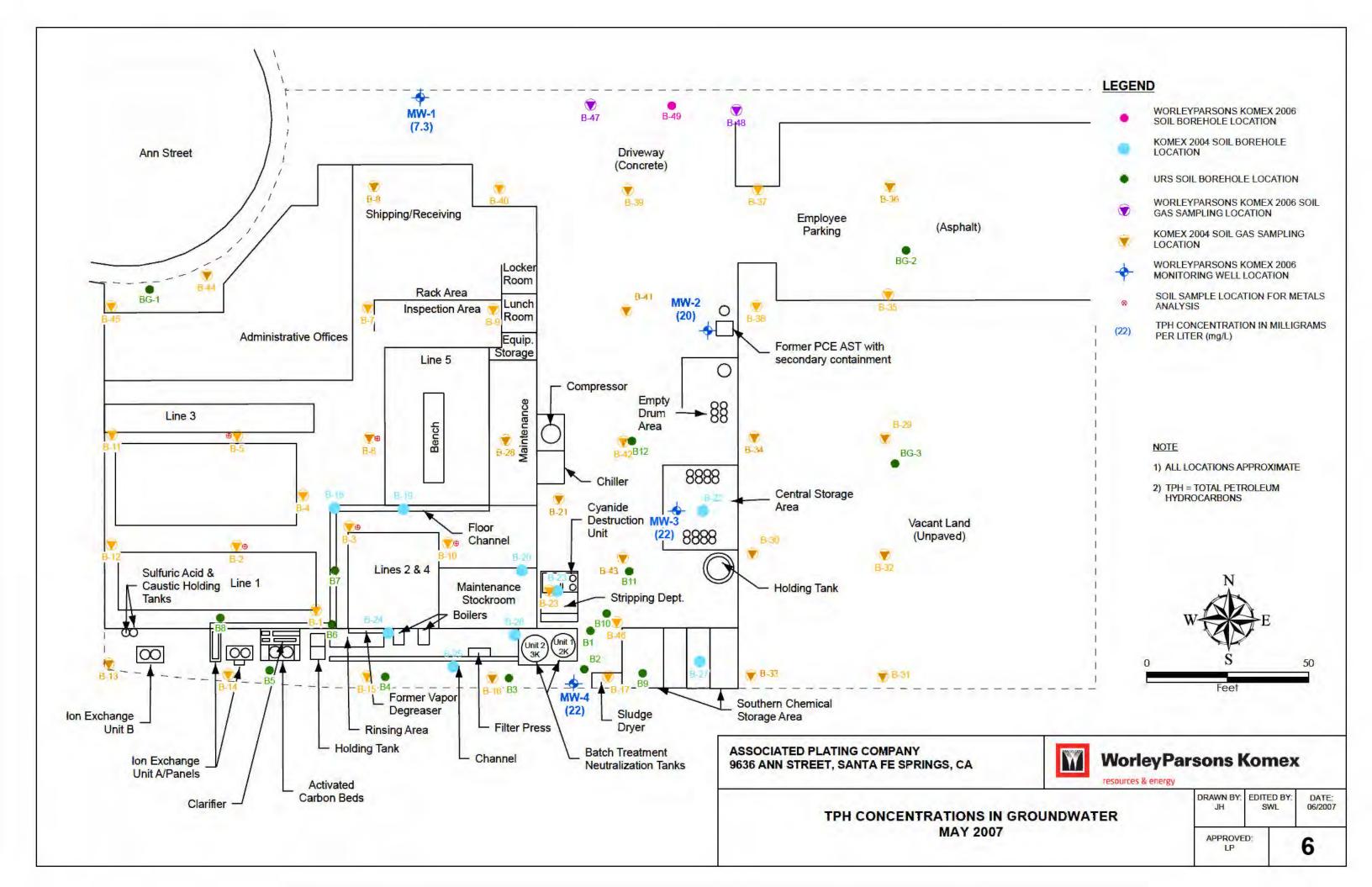


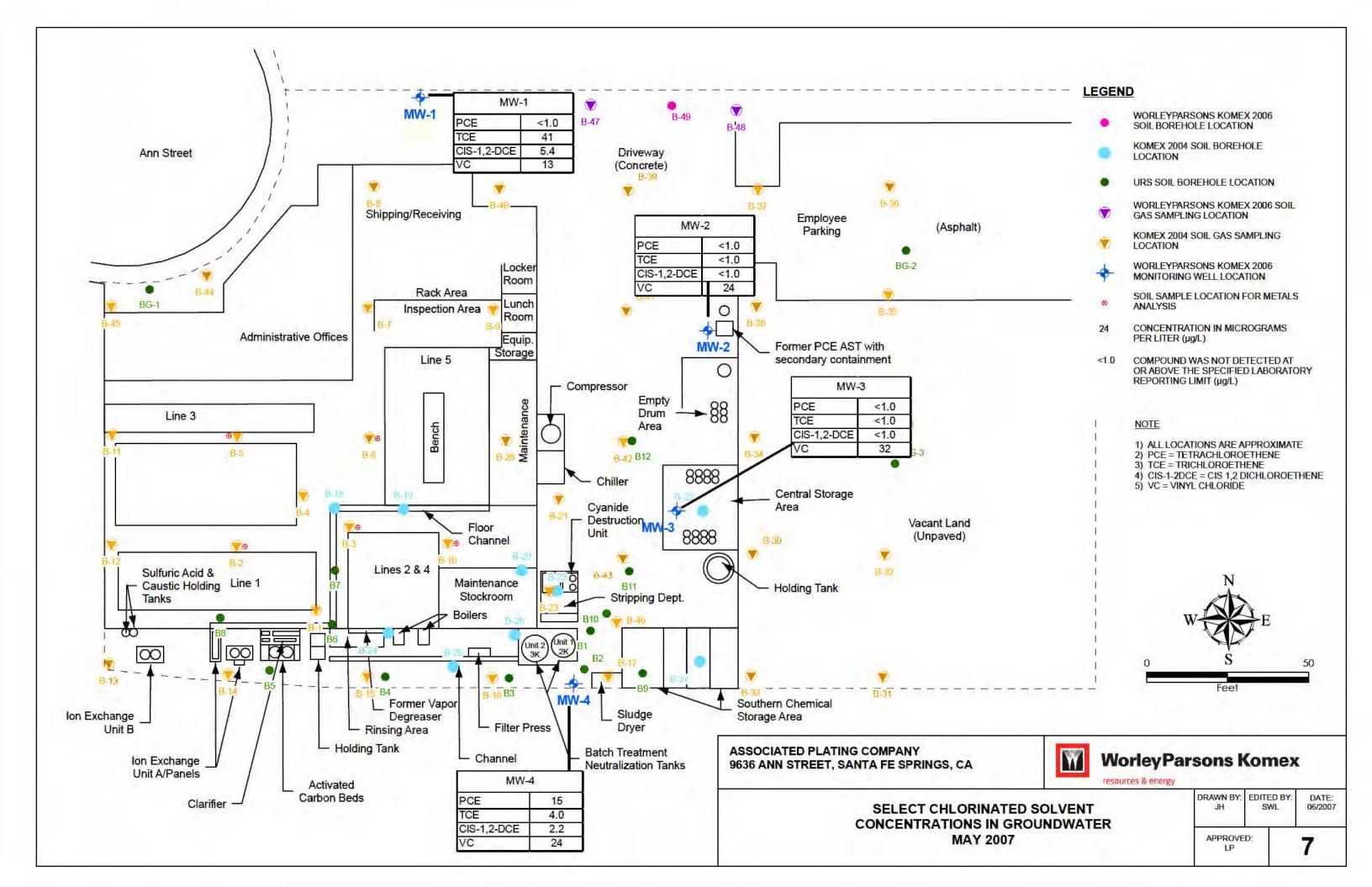














Appendix 1 Monitoring Well Sampling Forms

157850\_1 H0287D: 12 July 2007

STAFF:	191	RIT				DATE:	5/16/0	7	
		636 Am	St Santa	E Sorina	is CA			T (W) T F	
		THER:	,	1 /			NAME: A		
OTHER:								BER: HOASTDOD	_
DATUM: (ie.	Feet MSL, be	enchmark etc.):	Fret	MSZ	100	instrumen	: <u>501</u>	inst	
Time	Well	Measuring	Dept	h Measuremer	nts	Product	Water	Comments	_
	No.	Pt. Elev. 1	To Product	To Water	To Bottom	Thickness	Elevation 1	Conditions of well box, water in box	,
	<u> </u>	Feet	Feet be	low measuring	point	Feet	Feet	lack of measuring point, etc.	
9:35	142-1			33,26				good	
8:40	11 W-2			35.53					
8:45	MN-3		Shein	37.05					
8:55	11W-41		Sheen	37.32			ļ	<u>\</u>	_
									_
		-							
EQUIRED AC	TIONS:								
	4-1-1-1								$\dashv$
									-
0524052	. /	V 200	35/45/45	274			2.072.07		_

"indicate if Elevations are relative to MSL or other datum (ie, FeetMSL)



11/24 TD

## **W**orleyParsons Komex

MONITORING WELL SAMPLING FORM

respuices & energy

5455 GARDEN GROVE BLVD., SECOND FLOOR WESTMINSTER, CA 92683-8201, USA TEL:: 714,379,1157 FAX.: 714,379,1160

Project Name: APCI	Date: 51 16 6 7
Project No.: HU2570020	Time: 9:30
Employee Name: LP - RH	Page of I

WELL CO	NSTRUCT	ION DETAILS	5	WEL	L NO:	1W-1	T		LOCAT	TION SKETCE	<del>-</del> 1:
DATES		Casing Type:	PVC	Screen Ty		v C	1				
Constructed:		Diameter:	2"	Diamter:	2"		1	~			
Developed:		Length:		Length:			1	9	(E Si	te map	
Last Sampled:		T.D.: 4	3	Slot Size:			1				
h							1				
WELL CON	IDITION:	acoal	Water	Depth:	33,	26	1				
G.S. Elev.:		Water Depth:		F.P. Thick	ness:		1				
T.C. Elev.:		Water Column:	4.74	Water Od	or:		1				
W.L. Elev:		Casing Volume:	156	Turbidity			1				
Note: 2" = 0.16	g/ft; 4" = 0.65	g/ft; and 6" = 1.5	ʒ/ft				1				
Well Purgir	ng Method	ngensen	വസാ	Purge V	701.: 4	, 7	1				
			,		-						
WELL PUR	GING AN	D RECOVER	ANALYS	IS: 👸		BSICA		my/L			
Time	W.L.	Purge Rate	Vol.	Temp.	pН	Conduct.	Turbid.	D.O.	ORP	Sample No.	REMARKS
90	-		. 25	22.46	6.78	1358	999	1.79			
9:32			135	336	6.71	1.858	181	0.13			
9 34	37.35		2.5	22.62	6-70	1.855	60.5	0.16			
936	33-33		3	22.83	6-70	1.851	170	0.14			
937			3.5	22.40	6.71	1.831	160	0.12			
940	33.40		4.0	22 45	6.71	1826	158	6.12			
9:412			4.7	23.0	6-71	1.825	120	0.11			
9:45	33.3										
•											
		-									
SAMPLING	INFORM	AATION:									
Sample No.		Time	Sampling	Method	Contain	er	Analysis l				
MW1-5	1607	9:50	dip b	21/25	17 + 1	295	836	+ 7	PH.	corners p	ange
5B-5	1607	16.00	<u>'</u>								/
十岁 -5	1607	16.51									
713 -5											
ADDITION											
500%	1610	V6/7 =	35 1	31							
		•									



## WorleyParsons Komex

MONITORING WELL SAMPLING FORM

resources & energy

Project Name: APCI	Date: 5/16/07
Project No.: HO2870020	Time: 10:15
Employee Name: 2218 it	Page 1 of

WELL CONSTRUCTION DETAILS WELL NO: / Www. 2						LOCATION SKETCH:					
DATES	Casing Type:	PVC	Screen Ty			1					
Constructed:	Diameter:	11	Diamter:	2"		1					
Deveioped:	Length:		Length:			Sec sit map					
Last Sampled: T.D.: 47 Slot Size:								Je	, J, Z , J, J	~ / /	
WITH CONDITION	<i>f</i> :	TA7-4	D (I	3-		1					
WELL CONDITION:	15,57	vvater		35.8	??	1					
G.S. Elev.: Water Depth: F.P. Thickness:											
T.C. Elev.:	Water Column:	11.18	Water Od			1					
W.L. Elev: Note 2" = 0.16 g/ft <sub>2</sub> /4" = 0.65	Casing Volume:	1./1	Turbidity:	-		ł					
Note 2 = 0.16 g/t/24 = 0.65	gyrc, and 6 = 1.5 g	,/rt				1					
Well Purging Method	. ^~~		Purge V	Iol: I	,6	1					
Then I diging Medica	י וישמאמא א	ung	ruige v	o 5	/- [	<u> </u>					
WELL PURGING AN	ID RECOVERY	ANALYS	IS:								
Time W.L.	Purge Rate	Vol.	Temp.	рН	Conduct.	Turbid.	D.O.	ORP	Sample No.	REMARKS	
10:20	OSApra	0.25	1	6.70	1,44	0.35	0.46	-190,			
10:21	1 75	1.25	22.89	7.00	1.53	40.9	0.15	-3334	,		
10/22 36.20	~, 75apm	2,5	22.94	7.01	1.56	20	0.37	. 272			
10:24	1	3.25	23.00	6.98	1.56	0	0.15	2 230			
10:36 X.5		4.5	2244	6.96	1.58	Ĝ	03	7413.	آ ک		
10:37		5.00	23.0	6,4-1	1:59	0	0.12	-243	6		
10:28	~054pm	5.5	33.0	6.441	1.58	0	0.15	2412.0	ì		
35.85	, P										
SAMPLING INFORM	AATION:										
						Analysis Required					
MW2-51607 10:30 6		disg b	displanti 121			8260 + TRH Chirdon Change					
ADDITIONAL INFO											
80% 1000	very =	34	76	h 1							



WorleyParsons Komex MONITORING WELL SAMPLING FORM

resources & energy

5455 GARDEN GROVE BLVD., SECOND FLOOR WESTMINSTER, CA 92683-8201, USA TEL.: 714.379.1157 FAX.: 714.379.1160

Proiect Name: APCI	Date: 5/16/07
Project No.: H0 287 D0 20	Time: 10:40
	Page 1 of

WELL CO	NSTRUCI	ION DETAILS		WEL	L NO:/	11/1-3	_		LOCA:	HON SKETCE	1:	
DATES		Casing Type:	PUC	Screen Ty	pe: Du	/C	_					
Constructed: Diameter: 🤰 " Diameter: 🧘 "						See sit man						
Developed:		Length:		Length:				)	۴ د .	, .		
Last Sampled:	:	T.D.: 🗡	17	Slot Size:			]					
							]					
WELL CO	NDITION:	900d	Water	Depth:	37.	05	]					
C.S. Elev.:		Water Depth:		F.P. Thick	ness:		]					
T.C. Elev.:		Water Column:	9.95	Water Od	or:							
W.L. Elev:		Casing Volume:	1.59	Turbidity			]					
Note: 2" = 0.16	6 g/ft; 4" = 0.65	5 g/ft; and 6" = 1.5	g/ft				]					
							1					
Well Purgi	ng Method	li Monžeon	OUMO	Purge V	Tol.:	18	1					
			7									
WELL PUI	RGING AN	id recover`	Y ANALYS	IS: 💆		MSKM		RylL				
Time	W.L.	Purge Rate	Vol.	Temp.	рН	Conduct.	Turbid.	D.O.	ORP	Sample No.	REMARKS	
10:52		luom	0.25	22.37	6.46	1.61	178	0.38	-187	8		
	37.37	lgpm	1.5	22.48	6.45	1.55	363	0.40	-1986	7		
10:55			2.35	22.57	695	1.61	91.8	0.2	-209.	2		
	32.35		3.00	376	6.45	163	43.5	L	-217			
10:57			4.10	22,75		164	43.5	0.11	-221.			
10:59				22 76	694	1.64	13.0			7		
	37.37			-						-		
		_										
SAMPLING	G INFORN	AATION:	-				<u> </u>	·	1		<u> </u>	
Sample No.		Time	Sampling Method		Container		Analysis Required					
MW3-51607		11:05	dra Dulci		14 trais		8242 - TPH 1012 14291					
7145		71.05			1.4 .785		1					
ADDITION	NAL INFO	RMATION:			-							
	4007	Weaver	- 2	31	04		7					
	- CC - C	15 1 15 4-6	7								141 71 141 1	



## MONITORING WELL SAMPLING FORM

5455 GARDEN GROVE BLVD., SECOND FLOOR WESTMINSTER, CA 92683-8201, USA TEL.: 714.379.1157 FAX.: 714.379.1160

Project Name: APCI	Date: 5/16/07
Project No.: Ho 287 DC20	Time: 11:25
Employee Name: LPFRH	Page lof (

WELL CO	NSTRUCT	ION DETAILS	3	WEL	L NO: ,	441			LOCAT	ION SKETCI	1:
DATES		Casing Type:	b/(	Screen Ty		VC	]	·			
Constructed:		Diameter:	2"	Diamter:	2"		]	$\supset_{\ell}$	e Si	t Mag	)
Developed:		Length:		Length:			]				
Last Sampied		T.D.:	17	Slot Size:			]				
							]				
WELL CO	NDITION:		Water	Depth:	37	32	]				
C.S. Elev.:		Water Depth:		F.P. Thick	ness:		1				
T.C. Elev.:		Water Column:	9.49	Water Od	or:		1				
W.L. Elev:		Casing Volume:	1.53	Turbidity	:		1				
Note: 2" = 0.16	g/ft; 4" = 0.65	g/ft; and 6" = 1.5	g/ft				1				
					<del></del>	,					
Well Purgi	ng Method	: MUNSON	Diana	Purge \	/ol.: 4	· 6	<u> </u>				
						L:		- //			
	1	D RECOVERY	1		T	ms 1cm		7/ /	T		In the process
Time	W.L.	Purge Rate	Vol.	Temp.	pН	Conduct.	Turbid.	D.O.	ORP	Sample No.	REMARKS
11:36		ļ	025	21.99	7.13	1.322	8,60	0.25	-187.4		
11:29	3710	~ Igpm	1.1	33.3		-	90.8	0.19	-76.5		
11:30	7-2		3.1	22.50		1.48	37,9	0.15	77.5		
11:31	37.33		3.1	22.57	7.13	1.50	370	0.14	-312.9		
11:36			41	33 X	7.11	1.51	136	0.17		1	
11:38	37.55		4.4	22.7	703	1.548	37.8	0.54	-232		
1131			4.5	23.71	701	1.557	33.4	0.10	236		
11 41			6	23.72	7w	1.56	15.3	007	-235.2		
1:49	37.32										
SAMPLING		IATION:									
Sample No.		Time	Sampling		Containe	er .	Analysis I				
MW4-5	1407	11.50	1150 b.	a. 17.	14 + 6	Take C	SALA	+ 7	PH 10	u hon 1	2046
		RMATION:	7.3								
70	10 16	01111 =	24,	35	1-1-						
<del></del>											
<i>v</i> )4-	4-4	auce -		ralling	./ <b>L</b>						



ASSOCIATED PLATING COMPANY
SECOND QUARTER 2007 GROUNDWATER MONITORING REPORT
ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

Appendix 2 Waste Manifest

157850\_1 H0287D: 12 July 2007

1	T	4	Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Trac	king Numbe	31	
R	L		CAD043079110		1 800 274 5263	28272	0525A	JE	
	1	Generator's Name and Mailin	· ·		Generator's Site Address (if different tha			v	3.76
		SSOCIATED PI 626 ANN STRE			ASSOCIATED PLATIN 9636 ANN ST	IG CO A'P'	M MTU	THAEL EVA	TNE
			INGS, CA 90670		SANTA FE SPRINGS,	CA 9057	20		
			46-5525 ATTN:						
	6.	Transporter 1 Company Nam	1 <del>e</del>			U.S. EPA ID Numb	er		
П	A	SHLAND INC.				OHD	0 4 2	3 1 1 2	0 9
Ш	7.	Transporter 2 Company Nam	ne			U.S. EPA ID Numb	er		
П									
	8.	Designated Facility Name an	nd Site Address			U.S. EPA ID Numb	er		
			R TECHNOLOGIES						{
		:275 30UTH B( :03 ANGELES,				CAD (	97	030.9	93
		cility's Phone:	323-277-1500			.,			
	9a.		n (including Proper Shipping Name, Hazard Class. ID Number	r.		10. Contai	iners	11. Total	12. Unit
	HM		y)		***************************************	Na.	Туре	Quantity	-Wt./Vol.
1		1.							
15		NOW DOT, BEISC	MATERIAL	,		2		110	G
E						~	DM	./	
GENERATOR		2.							
Ĭ									
	_								
		3.							1
	_								
		4.							
									L
	•	•	ns and Additional Information IAZ GROUNDWATER DM P172800, 5	-06007					
	1	e zpedo nom n	EL GROWELLS LM 21/2000, O	00051					
					DIE	1020	nce	71118	7
	16	CENERATOR'S (OFFEROR	'S CERTIFICATION: I hereby declare that the contents of this	onnoisement o			<del></del>	- O O	C
Ш	15.	marked and labeled/placard	led, and are in all respects in proper condition for transport ac-	cording to appli	cable international and national governmen				
Ш		Exporter, I certify that the co	ontents of this consignment conform to the terms of the attach	ed EPA Acknow	eledgment of Consent.				
	Ge	nerator's/Offeror's Printed/Ty	med Name	Sign	nature /			Month Day	Year
	1	11		J	Na. 11	din		1 / 1 /2	1
*	16	. International Shipments	vges Neimer	<del></del>	1 (1	man		Co C	
NT			Import to U.S.	Export from	,				
	<del>,</del>	ansporter signature (for expor Transporter Acknowledgmer			Date leaving U.S.:				
TRANSPORTER		ansporter 1 Printed/Typed Na	*****	Sian	nature 1	· · · · · · · · · · · · · · · · · · ·		Month Day	Year
ĺŘ			MIREZ	ا ا	Fred Kamine			0608	07
NSF	îra	ansporter 2 Printed/Typed Na		Siar	ature / Jasous			Month Day	
IFA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1		,			1
<u> </u>	18	Discrepancy			77.77	·····			
	-	a. Discrepancy Indication Spa	ace		Π	П		<u> </u>	
			ace Quantity Type		Residue	Partial Rejec	tion	L_1 Full R	ejection
					Manifest Reference Number:				
	181	b. Alternate Facility (or Gener	rator)		****	U.S. EPA ID Numbe	er		
Ē		,,							
ACI	6	nilitula Dhanas							
:D F		cility's Phone: c. Signature of Alternate Faci	ility (or Generator)					Month Day	Year
ATE			•					1 1	
DESIGNATED FACILITY	19	(Management Method Code	es)			<b>Jan</b> 200 - 100 -			
SES	1.	11. 11	2.	3.		4.			
1		TIM	·						
	20	Designated Facility Owner	or Operator: Certification of receipt of materials covered by the	e manifest exc	ept as noted in Item 18a				
		nted/Typed Name	/		ature /			Month Day	Year
	,,	~ / //	user	120	sonly It	<del>)</del>		06/3	0
				10 V					F/8 L



ASSOCIATED PLATING COMPANY
SECOND QUARTER 2007 GROUNDWATER MONITORING REPORT
ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

Appendix 3 Laboratory Analytical Report

157850\_1 H0287D: 12 July 2007



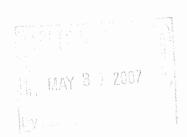
25 May 2007

Lee Paprocki Worley Parsons Komex 3901 Via Oro Avenue, Suite 100 Long Beach, CA 90810-1800

RE:APC

Work Order No.:

0705378



Attached are the results of the analyses for samples received by the laboratory on 05/16/07 13:55.

The samples were received by Sierra Analytical Labs, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analyses were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require any additional retaining time, please advise us.

Sincerely,

Richard K. Forsyth

Rebard X Forth

Laboratory Director

Sierra Analytical Labs, Inc. is certified by the California Department of Health Services (DOHS), Environmental Laboratory Accredidation Program (ELAP) No. 2320.



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki Reported: 05/25/07 09:04

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1-51607	0705378-01	Liquid	05/16/07 09:50	05/16/07 13:55
MW2-51607	0705378-02	Liquid	05/16/07 10:30	05/16/07 13:55
MW3-51607	0705378-03	Liquid	05/16/07 11:05	05/16/07 13:55
MW4-51607	0705378-04	Liquid	05/16/07 11:50	05/16/07 13:55
EB-51607	0705378-05	Liquid	05/16/07 10:00	05/16/07 13:55
FB-51607	0705378-06	Liquid	05/16/07 10:05	05/16/07 13:55
TB-51607	0705378-07	Liquid	05/16/07 00:00	05/16/07 13:55

#### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.

PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.

HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.

All quality objective criteria were met, except as noted in the report with data qualifiers.



Worley Parsons Komex 3901 Via Oro Avenue, Suite 100

Long Beach CA, 90810-1800

Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID Sierra Analytical Labs, Inc.

-	SIC	iid Al	uary iica	ı Laus, ı	uc.				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW1-51607 (0705378-01) Liquid	Sampled: 05/16/07 09:5	0 Rece	ived: 05/	16/07 13:5	5				
HC < C8	ND	0.010	mg/L	1	B7E2330	05/22/07	05/22/07	EPA 8015B	
$C8 \le HC < C9$	ND	0.010	11	11	u	n	11	11	
C9 <= HC < C10	0.030	0.010	11	II.	н	н	n	n .	
C10 <= HC < C11	0.096	0.010	11	II .	н	Ħ	11	11	
C11 <= HC < C12	0.20	0.010	11	н	н	11	11	н	
C12 <= HC < C14	0.79	0.010	17	н	11	u	11	n	
C14 <= HC < C16	0.87	0.010	P	11	11	17	н	11	
C16 <= HC < C18	0.79	0.010	*	0	17	If	†1	"	
C18 <= HC < C20	0.60	0.010	н	U	11	n	11	u.	
C20 <= HC < C24	1.4	0.010	11	n	n	n	11	II	
C24 <= HC < C28	1.7	0.010	11	н	п	11	U	It.	
C28 <= HC < C32	0.78	0.010	11	"	11	n	II .	It	
HC >= C32	0.040	0.010	II.	ti .	11	u	н	n	
Total Petroleum Hydrocarbons (C7-C36)	7.3	0.050	H	11	11	U	n	11	
Surrogate: o-Terphenyl		125 %	60-	175	"	"	"	"	
MW2-51607 (0705378-02) Liquid	Sampled: 05/16/07 10:3	0 Rece	ived: 05/1	16/07 13:5:	5				
HC < C8	ND	0.20	mg/L	20	B7E2330	05/22/07	05/23/07	EPA 8015B	
C8 <= HC < C9	ND	0.20	0	11	11	11	If	н	
C9 <= HC < C10	ND	0.20	H.	11	11	11	11	н	
C10 <= HC < C11	ND	0.20	н	11	11	H	Ħ	11	
C11 <= HC < C12	ND	0.20	H	11	**	n	н	11	
C12 <= HC < C14	1.0	0.20	n	H	и	н	Ħ	11	
C14 <= HC < C16	1.8	0.20	11	н	n	11	11	ti .	
C16 <= HC < C18	1.4	0.20	11	n	n	11	11	11	
C18 <= HC < C20	1.7	0.20	11	11	Ħ	11	11	11	
C20 <= HC < C24	2.2	0.20	11	11	19	u u	II	r r	
C24 <= HC < C28	3.7	0.20	н	u	11	It	It	н	
C28 <= HC < C32	7.0	0.20	"	u	11	It	11	п	
HC >= C32	0.82	0.20	н	11	11	If	II .	n	
Total Petroleum Hydrocarbons (C7-C36)	20	1.0	Ħ	Ħ	11	н	н	п	
Surrogate: o-Terphenyl		%	60-	175	"	"	"	n	S-0.



Surrogate: o-Terphenyl

Worley Parsons Komex 3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki Reported: 05/25/07 09:04

## Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID Sierra Analytical Labs, Inc.

Analyte	Result	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3-51607 (0705378-03) Liquid	Sampled: 05/16/07 11:05	Rece	ived: 05/1	6/07 13:55	5				
HC < C8	ND	0.20	mg/L	20	B7E2330	05/22/07	05/23/07	EPA 8015B	
C8 <= HC < C9	ND	0.20	11	"	"	H	*	U	
C9 <= HC < C10	ND	0.20	"	11	11	17	"	"	
$C10 \le HC < C11$	ND	0.20	11	"	11	17	0	H	
C11 <= HC < C12	0.40	0.20	u	11	н	ır		11	
C12 <= HC < C14	2,5	0.20	11	1)	11	**	**	"	
C14 <= HC < C16	2.5	0.20	11	"	u	11	11	и	
C16 <= HC < C18	1.8	0.20	11	"	"	"	11	n	
C18 <= HC < C20	2.0	0.20	n	11	н	"	"	11	
C20 <= HC < C24	2,9	0.20	11	11	11	11	"	II .	
C24 <= HC < C28	3.7	0.20	rt	"	17	11	**	"	
C28 <= HC < C32	5.9	0.20	11	"	11	**	**	11	
HC >= C32	0.66	0.20	U	11	н	n	11	11	
Total Petroleum Hydrocarbons (C7-C36)	22	1.0	11	"	1)	"	"	II	
Surrogate: o-Terphenyl		%	60-	175	"	"	"	"	S-03
MW4-51607 (0705378-04) Liquid	Sampled: 05/16/07 11:50	Recei	ived: 05/1	6/07 13:55	5				
HC < C8	ND	0.20	mg/L	20	B7E2330	05/22/07	05/23/07	EPA 8015B	
C8 <= HC < C9	ND	0.20	н	n	"	"	11	н	
C9 <= HC < C10	ND	0.20	10	11	н	"	11	"	
C10 <= HC < C11	ND	0.20	1)	11	"	**	"	11	
C11 <= HC < C12	0.40	0.20	11	"	11	"	*	II .	
C12 <= HC < C14	2,4	0.20	11	и	11	II.	"	n	
C14 <= HC < C16	2.4	0.20	u	н	н	*	0	и	
C16 <= HC < C18	1.9	0.20	11	11	11	n	11	11	
C18 <= HC < C20	2.0	0.20	**	"	11	"	"	11	
C20 <= HC < C24	2.7	0.20	н	"	11	"	"	11	
C24 <= HC < C28	3.4	0.20	10	"	11	"	"	n	
C28 <= HC < C32	5.9	0.20	11	II .	11	"	U	"	
HC >= C32	0.64	0.20	11	11	11	fr.	H .	11	
Total Petroleum Hydrocarbons (C7-C36)	22	1.0	n	11	11	u	11	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

%

60-175

S-03



Worley Parsons Komex 3901 Via Oro Avenue, Suite 100

Long Beach CA, 90810-1800

Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

#### Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Sierra Analytical Labs, Inc.										
Analyte	Rep Result	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note	
MW1-51607 (0705378-01) Liquid	Sampled: 05/16/07 09:50	Recei	Received: 05/16/07 13:55							
Benzene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/17/07	EPA 8260B		
Bromobenzene	ND	1.0	U.	u	11	**	н	ii .		
Bromochloromethane	ND	1.0	If	It	11	11	и	n		
Bromodichloromethane	ND	1.0	и	11	11	11	Ħ	п		
Bromoform	ND	1.0	н	Ħ	it.	U	11	Ħ		
Bromomethane	ND	1.0	11	Ħ	"	n	U	n		
n-Butylbenzene	ND	1.0	11	11	н	H	11	n		
sec-Butylbenzene	ND	1.0	11	n	n	**	n	U		
tert-Butylbenzene	1.3	1.0	0	U	n	n	11	11		
Carbon tetrachloride	ND	1.0	n	**	11	н	н	n		
Chlorobenzene	ND	1.0	n	**	U	#1	Ħ	н		
Chloroethane	ND	1.0	н	н	17	11	н	н		
Chloroform	ND	1.0	н	н	I7	11	11	11		
Chloromethane	ND	1.0	**	н	It	11	11	11		
2-Chlorotoluene	ND	1.0	11	11	n	n	0	11		
4-Chlorotoluene	ND	1.0	11	11	н	11	li .	11		
Dibromochloromethane	ND	1.0	u	11	11	11	11	u		
1,2-Dibromo-3-chloropropane	ND	5.0	**	0	11	11	11	11		
1,2-Dibromoethane (EDB)	ND	1.0	H	**	11	It	н	n		
Dibromomethane	ND ND	1.0	н	11	11	Ħ	н	11		
1,2-Dichlorobenzene	ND ND	1.0	п		11	Ħ	11	II.		
	ND ND	1.0	11	н	H .	11	11	H		
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND ND	1.0	**	п	It	11	11	H		
· ·	ND ND	1.0	11	11	H	11	11	н		
Dichlorodifluoromethane				11	и.	11	" U	"		
1,1-Dichloroethane	ND	1.0		11			"	"		
1,2-Dichloroethane	ND	1.0	 D				" "	11		
1,1-Dichloroethene	ND	1.0	"	"	"	" "	" "	"		
cis-1,2-Dichloroethene	5.4	1.0	17		"		'' It	"		
trans-1,2-Dichloroethene	2.3	1.0						"		
1,2-Dichloropropane	ND	1.0	11	н	11	11	It	"		
1,3-Dichloropropane	ND	1.0	H	н	11	"	11	11		
2,2-Dichloropropane	ND	1.0	11	н	H	11	"	"		
1,1-Dichloropropene	ND	1.0	11	н	11	11	11	11		
cis-1,3-Dichloropropene	ND	1.0	łi .	11	17	11	н	11		
trans-1,3-Dichloropropene	ND	1.0	11	11	II	11	11	11		
Ethylbenzene	ND	1.0	11	11	11	11	**	If		
Hexachlorobutadiene	ND	1.0	11	11	11	11	11	It		
Isopropylbenzene	ND	1.0	11	1)	11	11	11	n		
p-Isopropyltoluene	2.3	1.0	11	11	11	11	11	n		
Methylene chloride	ND	1.0	U	11	11	0	11	н		
Methyl tert-butyl ether	ND	1.0	н	11	n	0	11	н		



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Analyte	Re <sub>j</sub> Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW1-51607 (0705378-01) Liquid	Sampled: 05/16/07 09:50	Rece	ived: 05/1	6/07 13:55	5				
Naphthalene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/17/07	EPA 8260B	
n-Propylbenzene	ND	1.0	"	"	0	11	U U	п	
Styrene	ND	1.0	11	"	If	11	II	н	
1,1,1,2-Tetrachloroethane	ND	1.0	11	11	H	11	It	н	
1,1,2,2-Tetrachloroethane	ND	1.0	11	11	II	11	R	n	
Tetrachloroethene	ND	1.0	u	u	11	n	11	11	
Toluene	ND	1.0	u u	u	11	n	11	11	
1,2,3-Trichlorobenzene	ND	1.0	H	11	11	11	11	11	
1,2,4-Trichlorobenzene	ND	1.0	н	n .	11	11	11	11	
1,1,1-Trichloroethane	ND	1.0	н	H	11	н	11	17	
1,1,2-Trichloroethane	ND	1.0	**	H	11	н	11	II.	
Trichloroethene	41	1.0	11	11	11	N	11	II.	
Trichlorofluoromethane	ND	1.0	11	н	11	н	11	u .	
1,2,3-Trichloropropane	ND	1.0	10	н	11	11	11	17	
1,2,4-Trimethylbenzene	ND	1.0	11	н	11	11	11	tr .	
1,3,5-Trimethylbenzene	ND	1.0	11	11	**	**	H	H	
Vinyl chloride	13	1.0	11	11	н	11	н	н	
m,p-Xylene	ND	1.0	11	11	11	11	н	н	
o-Xylene	ND	1.0	11	11	н	17	н	н	
Surrogate: Dibromofluoromethane		08 %		118	"	n	"	n n	***************************************
Surrogate: Dioromojiaoromemane Surrogate: Toluene-d8		05 %	88		"	n	"	"	
Surrogate: 1-0111ene-40 Surrogate: 4-Bromofluorobenzene		13 %	86		"	"	"	"	
· ·									
MW2-51607 (0705378-02) Liquid	Sampled: 05/16/07 10:30		ived: U5/1	6/07 13:55	<u> </u>				
Benzene	2.6	1.0	μg/L	1	B7E1706	05/17/07	05/17/07	EPA 8260B	
Bromobenzene	ND	1.0	H	н	11	н	u u	и	
Bromochloromethane	ND	1.0	H	Ħ	II	"	11	11	
Bromodichloromethane	ND	1.0	U	11	11	n	11	11	
Bromoform	ND	1.0	ii	Ħ	H	н	11	11	
Bromomethane	ND	1.0	U	11	I†	n	11	н	
n-Butylbenzene	ND	1.0	11	0	11	**	11	11	
sec-Butylbenzene	14	1.0	11	11	It.	11	17	11	
tert-Butylbenzene	2.4	1.0	0	11	I†	11	17	11	
Carbon tetrachloride	ND	1.0	U	11	11	ti	11	11	
Chlorobenzene	ND	1.0	17	"	If	Ħ	11	n	
Chloroethane	ND	1.0	II.	11	н	0		u	
Chloroform	ND	1.0	II.	II.	It	11	11*	11	
Chloromethane	ND	1.0	17	11	н	11	11	11	
			17	17	11	17	11	11	
2-Chlorotoluene	ND	1.0	.,	*1	.,				
	ND ND	1.0	"	11	"	11	tr	n	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Sierra Analytical Labs, inc.										
Analyte	Rej Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
MW2-51607 (0705378-02) Liquid	Sampled: 05/16/07 10:30	Recei	ived: 05/1	6/07 13:55	:55					
1,2-Dibromo-3-chloropropane	ND	5.0	μg/L	1	B7E1706	05/17/07	05/17/07	EPA 8260B		
1,2-Dibromoethane (EDB)	ND	1.0	n	n	If	n .	Ħ	11		
Dibromomethane	ND	1.0	17	Ħ	If	11	н	11		
1,2-Dichlorobenzene	ND	1.0	11	U	н	11	н	11		
1,3-Dichlorobenzene	ND	1.0	It	D.	н	n	11	11		
1,4-Dichlorobenzene	ND	1.0	If	n.	н	"	11	n		
Dichlorodifluoromethane	ND	1.0	н	II.	11	н	11	U		
1,1-Dichloroethane	ND	1.0	н	11	11	н	11	ii.		
1,2-Dichloroethane	ND	1.0	11	н	11	n	11	ii .		
1,1-Dichloroethene	ND	1.0	11	Ħ	11	н	U	н		
cis-1,2-Dichloroethene	ND	1.0	11	11	11	11	n	н		
trans-1,2-Dichloroethene	ND	1.0	U	11	11	11	u	н		
1,2-Dichloropropane	ND	1.0	U	11	u	11	II.	n		
1,3-Dichloropropane	ND	1.0	11	11	11	11	11	н		
2,2-Dichloropropane	ND	1.0	D.	0	н	92	II.	n		
1,1-Dichloropropene	ND	1.0	**	0	н	1)	11	n		
cis-1,3-Dichloropropene	ND	1.0	#	**	н	11	It	Ħ		
trans-1,3-Dichloropropene	ND	1.0	11	n	н	"	н	n		
Ethylbenzene	ND	1.0	11	Ħ	11	**	ıı	n		
Hexachlorobutadiene	ND	1.0	11	н	11	**	H	16		
Isopropylbenzene	53	1.0	11	"	11	н	н	n		
p-Isopropyltoluene	4.1	1.0	11	11	19	Ħ	11	п		
Methylene chloride	ND	1.0	0	11	11	н	11	u		
Methyl tert-butyl ether	1.9	1.0	11	U	U	п	11	0		
Naphthalene	ND	1.0	D	D.	11	Ħ	11	H		
n-Propylbenzene	3.7	1.0	II .	11	lt .	ti .	11	n		
Styrene	ND	1.0	n	17	11	**	11	II.		
1,1,1,2-Tetrachloroethane	ND	1.0	H	17	II .	11	11	U		
1,1,2,2-Tetrachloroethane	ND	1.0	"	11	II	11	11	U		
Tetrachloroethene	ND	1.0	н	II	н	U	u	II.		
Toluene	ND	1.0	Ħ	"	н	11	11	U		
1,2,3-Trichlorobenzene	ND	1.0	11	**	п	u u	II.	U		
1,2,4-Trichlorobenzene	ND	1.0	11	н	н	U	u	u		
1,1,1-Trichloroethane	ND	1.0	11	n	н	11	U	U		
1,1,2-Trichloroethane	ND	1.0	11	Ħ	н	11	II.	U		
Trichloroethene	ND	1.0	IJ	Ħ	н	u u	11	n		
Trichlorofluoromethane	ND	1.0	11	11	ti	1)	u	11		
1,2,3-Trichloropropane	ND	1.0	11	†I	11	u u	11	n		
1,2,4-Trimethylbenzene	ND	1.0	II.	11	ti	11	11	n		
1,3,5-Trimethylbenzene	ND	1.0	If	11	11	0	11	11		
Vinyl chloride	24	1.0	n	U	11	11	tt.	n		
•										



Project: APC
Project Number: H0287D030

Reported: 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Project Manager: Lee Paprocki

DIVITA TIMELY SICKI DIVINI THE											
Analyte	Result	Dorting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
MW2-51607 (0705378-02) Liquid	Sampled: 05/16/07 10:30	Rece	ived: 05/1	16/07 13:55	5						
m,p-Xylene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/17/07	EPA 8260B			
o-Xylene	ND	1.0	11		"	"	"	If			
Surrogate: Dibromofluoromethane	1	03 %	86-	118	"	"	"	"			
Surrogate: Toluene-d8	1	06 %	88-	110	"	"	"	"			
Surrogate: 4-Bromofluorobenzene		10 %		115	"	"	"	"			
MW3-51607 (0705378-03) Liquid	Sampled: 05/16/07 11:05	Recei	ived: 05/1	16/07 13:55	5						
Benzene	2.1	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B			
Bromobenzene	ND	1.0	, _	**	"	11	"	11			
Bromochloromethane	ND	1.0	Ħ	0	"	11	11	11			
Bromodichloromethane	ND	1.0	11	**	H	11	0	u			
Bromoform	ND	1.0	n	"	**	n	"	n .			
Bromomethane	ND	1.0	H	**	11	n	n	н			
n-Butylbenzene	ND	1.0	n	11	11	11	11	11			
sec-Butylbenzene	16	1.0	11	u	H	"	11	11			
tert-Butylbenzene	ND	1.0	o	"	и	"	"	11			
Carbon tetrachloride	ND	1.0	11	"	11	Ħ	"	11			
Chlorobenzene	ND	1.0	н	11	11	11	n	н			
Chloroethane	ND	1.0	11	"	lt .	11	Ħ	11			
Chloroform	ND	1.0	u	"	н	11	11	11			
Chloromethane	ND	1.0	"	н	11	"	11	11			
2-Chlorotoluene	ND	1.0	и	11	11	H	"	11			
4-Chlorotoluene	ND	1.0	11	11	11	n	P	н			
Dibromochloromethane	ND	1.0	U	11	11	"	н	11			
1,2-Dibromo-3-chloropropane	ND	5.0	17	IT	11	tr	n	11			
1,2-Dibromoethane (EDB)	ND	1.0	11	11	н	"	11	11			
Dibromomethane	ND	1.0	71	11	19	H	II .	11			
1,2-Dichlorobenzene	ND	1.0	11	11	u	"	n	11			
1,3-Dichlorobenzene	ND	1.0	u	n	11	**	it.	11			
1,4-Dichlorobenzene	ND	1.0	11	11	11	11	n	н			
Dichlorodifluoromethane	ND	1.0	**	**	**	"	n	11			
1,1-Dichloroethane	ND	1.0	11	11	**	"	11	**			
1,2-Dichloroethane	ND	1.0	**	11	**	м	**	**			
1,1-Dichloroethene	ND	1.0	"	11	"	**	"	11			
cis-1,2-Dichloroethene	ND	1.0	"	"	"	11	"	10			
trans-1,2-Dichloroethene	ND	1.0	"	н	"	11	"	"			
1,2-Dichloropropane	ND	1.0	Ħ	н	H	11	"	"			
1,3-Dichloropropane	ND	1.0	u	11	**	"	**	H			
2,2-Dichloropropane	ND	1.0	U	"	11	**	**	**			
1,1-Dichloropropene	ND	1.0	н	"	11	n	u	11			
cis-1,3-Dichloropropene	ND	1.0	"	n	11	н	U	11			
1,5 Diemoropropone	112	0									



Worley Parsons Komex 3901 Via Oro Avenue, Suite 100 Project: APC

3901 Via Oro Avenue, Suite 100 Project Number: H0287D030 Long Beach CA, 90810-1800 Project Manager: Lee Paprocki

**Reported:** 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3-51607 (0705378-03) Liquid	Sampled: 05/16/07 11:05	Recei	ived: 05/	16/07 13:5	5				
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B	
Ethylbenzene	ND	1.0	11	11	11	11	"	"	
Hexachlorobutadiene	ND	1.0	It	11	11	11	и	11	
Isopropylbenzene	68	1.0	Ħ	"	11	"	Ħ	U	
p-Isopropyltoluene	4.1	1.0	11	н	n	**	11	н	
Methylene chloride	ND	1.0	u .	11	11	11	11	"	
Methyl tert-butyl ether	1.1	1.0	H	"	11	11	11	**	
Naphthalene	2.2	1.0	H	**	"	11	"		
n-Propylbenzene	4.4	1.0	11	и	lt .	*	н	"	
Styrene	ND	1.0	11	н	**	n	n	"	
1,1,1,2-Tetrachloroethane	ND	1.0	**	11	"	"	11	,,	
1,1,2,2-Tetrachloroethane	1.5	1.0	"	"	"	0	11	"	
Tetrachloroethene	ND	1.0	11	"		"	**	II.	
Toluene	ND	1.0	10	и	H	н	н	"	
1,2,3-Trichlorobenzene	ND	1.0	11	"	н	n	*	**	
1,2,4-Trichlorobenzene	ND	1.0	It	"	11	11	**	**	
1,1,1-Trichloroethane	ND	1.0	н	u.	11	11	17	11	
1,1,2-Trichloroethane	ND	1.0	11	**	"	u.	17	II .	
Trichloroethene	ND	1.0	11	н	n	H .	н	II .	
Trichlorofluoromethane	ND	1.0	11	n	11	n	н	**	
1,2,3-Trichloropropane	ND	1.0	It	11	11	11	H	11	
1,2,4-Trimethylbenzene	ND	1.0	It	u	9	11	"	"	
1,3,5-Trimethylbenzene	ND	1.0	11	**	11	"	11	"	
Vinyl chloride	32	1.0	11	н	H	If	**	"	
m,p-Xylene	ND	1.0	11	"	**	н	и	"	
o-Xylene	ND	1.0	**	11	"	n	"	"	
Surrogate: Dibromofluoromethane	1	01 %	86-	118	"	"	"	"	
Surrogate: Toluene-d8		04 %	88-	110	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		08 %		115	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW4-51607 (0705378-04) Liquid	Sampled: 05/16/07 11:50	Rece	ived: 05/	16/07 13:55	5				
Benzene	6,2	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B	
Bromobenzene	ND	1.0	н	11	11	н	11	11	
Bromochloromethane	ND	1.0	11	11	It	"	11	11	
Bromodichloromethane	ND	1.0	н	u	И	n	11	tt	
Bromoform	ND	1.0	11	Ü	н	n	11	ii .	
Bromomethane	ND	1.0	11	H	11	"	n	"	
n-Butylbenzene	ND	1.0	"	n	11	II.	11	11	
sec-Butylbenzene	15	1.0	11	н	11	II.	н	Ħ	
tert-Butylbenzene	1.7	1.0	11	n	11	II	н	11	
Carbon tetrachloride	ND	1.0	Ħ	***	11	н	**	11	
Chlorobenzene	ND	1.0	Ħ	11	If	##	11	U	
Chloroethane	ND	1.0	n	11	II	11	11	U	
Chloroform	ND	1.0	н	11	н	11	1)	l†	
Chloromethane	ND	1.0	11	1)	н	11	n	It	
2-Chlorotoluene	ND	1.0	11	11	H	ti .	11	11	
4-Chlorotoluene	ND	1.0	11	н	H	11	11	n	
Dibromochloromethane	ND	1.0	11	n	17	11	"	н	
1,2-Dibromo-3-chloropropane	ND	5.0	u	н	11	Ħ	n	n	
1,2-Dibromoethane (EDB)	ND	1.0	n	н	11	н	**	n	
Dibromomethane	ND	1.0	ır	n	11	н	11	11	
1,2-Dichlorobenzene	ND	1.0	H	11	It	11	U	11	
1,3-Dichlorobenzene	ND	1.0	117	11	n	11	u	II.	
1,4-Dichlorobenzene	ND	1.0	11	v	н	11	U	n .	
Dichlorodifluoromethane	ND	1.0	11	v	н	0	u	0	
1,1-Dichloroethane	ND	1.0	11	11	n	11	II	n	
1,2-Dichloroethane	ND	1.0	11	0	n	n.	11	п	
1,1-Dichloroethene	ND	1.0	n	11	11	11	It	н	
cis-1,2-Dichloroethene	2,2	1.0	11	н	n	H	ir	н	
trans-1,2-Dichloroethene	ND	1.0	u	н	11	**	п	н	
1,2-Dichloropropane	ND	1.0	O	н	11	н	н	н	
1,3-Dichloropropane	ND	1.0	n	н	11	11	11	н	
2,2-Dichloropropane	ND	1.0	11	ti	u.	11	11	11	
1,1-Dichloropropene	ND	1.0	11	11	11	11	tı	11	
cis-1,3-Dichloropropene	ND	1.0	11	ti .	11	11	11	11	
trans-1,3-Dichloropropene	ND	1.0	n	11	н	ti	11	11	
Ethylbenzene	ND	1.0	"	11	H	n	11	11	
Hexachlorobutadiene	ND	1.0	н	11		U	11	u	
Isopropylbenzene	<b>78</b>	1.0	п	11	n	u	11	U	
p-Isopropyltoluene	4.0	1.0	н	11	и	11	11	u	
Methylene chloride	ND	1.0	n	11	н	u	11	"	
Methyl tert-butyl ether	1.5	1.0	11	u	и	11	11	u .	
Michai tert-patar etner	1.3	1.0							



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki Reported: 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Sierra Analyticai Labs, file.												
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
MW4-51607 (0705378-04) Liquid	Sampled: 05/16/07 11:5	0 Rece	ived: 05/	16/07 13:55	5							
Naphthalene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B				
n-Propylbenzene	5.2	1.0	"	u u	11	19	11	11				
Styrene	ND	1.0	11	11	11	11	11	0				
1,1,1,2-Tetrachloroethane	ND	1.0	"	11	11	11	11	11				
1,1,2,2-Tetrachloroethane	ND	1.0	11	1)	11	11	11	11				
Tetrachloroethene	15	1.0	11	"	11	11	11	11				
Toluene	ND	1.0	11	"	11	17	11	11				
1,2,3-Trichlorobenzene	ND	1.0	н	11	"	11	11	11				
1,2,4-Trichlorobenzene	ND	1.0	н	17	11	11	11	11				
1,1,1-Trichloroethane	ND	1.0	н	17	11	11	11	11				
1,1,2-Trichloroethane	ND	1.0	н	11	H	19	11	11				
Trichloroethene	4.0	1.0	н	11	11	17	11	11				
Trichlorofluoromethane	ND	1.0	н	11	11	11	11	11				
1,2,3-Trichloropropane	ND	1.0	"	11	11	"	11	11				
1,2,4-Trimethylbenzene	ND	1.0	"	11	n	11	*1	"				
1,3,5-Trimethylbenzene	ND	1.0	*	11	**	**	11	"				
Vinyl chloride	24	1.0	"	"	н	11	11	**				
m,p-Xylene	ND	1.0	н	11	н	ti .	11	n				
o-Xylene	ND	1.0	"	"	n	"	Ħ	*				
Surrogate: Dibromof!uoromethane		103 %	86-	118	"	"	"	"				
Surrogate: Toluene-d8		103 %		110	"	"	"	"				
Surrogate: 4-Bromofluorobenzene		112 %		115	"	"	"	"				
EB-51607 (0705378-05) Liquid S	Sampled: 05/16/07 10:00											
	ND				Dae1504	05/17/07	05/19/07	EDA 8260D				
Benzene Bromobenzene	ND ND	1.0 1.0	μg/L "	1	B7E1706	05/17/07	05/18/07	EPA 8260B				
	ND ND		"	n	lt.	n	ıt	,				
Bromochloromethane Bromodichloromethane	ND ND	1.0 1.0	"	н	II.	н	"	,,				
Bromoform	ND ND	1.0	11	,	II.			,				
Bromomethane	ND ND	1.0	11				 Ir	,				
	ND ND	1.0	11					"				
n-Butylbenzene	ND ND	1.0	11	**								
sec-Butylbenzene	ND ND		11	"		,,						
tert-Butylbenzene		1.0	11		11	,,	"					
Carbon tetrachloride	ND ND	1.0	"		,,	"	"					
Chlorosthana	ND ND	1.0	"	,,	"	"	"	"				
Chloroform	ND ND	1.0	" "	"	"	"	"	n				
Chloroform	ND ND	1.0	"	"	"	"	"	"				
Chloromethane	ND	1.0			"							
2-Chlorotoluene	ND	1.0	"	"		"						
4-Chlorotoluene	ND	1.0		"	"	"	"	"				
Dibromochloromethane	ND	1.0	"	**	"	"	'n	n.				



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki

**Reported:** 05/25/07 09:04

#### Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Result   Limit   Units   Dilution   Batch   Prepared   Analyzed		Notes
1,2-Dibromo-3-chloropropane ND 5.0 μg/L 1 B7E1706 05/17/07 05/18/07 1,2-Dibromoethane (EDB) ND 1.0 " " " " " " " " 1,2-Dichlorobenzene ND 1.0 " " " " " " " " 1,3-Dichlorobenzene ND 1.0 " " " " " " " " " 1,4-Dichlorobenzene ND 1.0 " " " " " " " " " " " " " " " " " " "	"	
1,2-Dibromoethane (EDB)       ND       1.0       "	"	
Dibromomethane         ND         1.0         "		
1,2-Dichlorobenzene       ND       1.0       " <td>11</td> <td></td>	11	
1,3-Dichlorobenzene       ND       1.0       " <td></td> <td></td>		
1,4-Dichlorobenzene ND 1.0 " " " " " Dichlorodifluoromethane ND 1.0 " " " " " "	"	
Dichlorodifluoromethane ND 1.0 " " " " "	"	
Dichlorodifluoromethane ND 1.0 " " " " "	n	
1,1-Dichloroethane ND 1.0 " " " "	11	
	11	
1,2-Dichloroethane ND 1.0 " " " "	"	
1,1-Dichloroethene ND 1.0 " " " "	n	
cis-1,2-Dichloroethene ND 1.0 " " " "	н	
trans-1,2-Dichloroethene ND 1.0 " " " "	11	
1,2-Dichloropropane ND 1.0 " " " "	u	
1,3-Dichloropropane ND 1.0 " " " "	11	
2,2-Dichloropropane ND 1.0 " " " "	"	
1,1-Dichloropropene ND 1.0 " " " " "	11	
cis-1,3-Dichloropropene ND 1.0 " " " "	11	
trans-1,3-Dichloropropene ND 1.0 " " " " "	"	
, 1 1	"	
·	"	
	"	
isopropytoenzene 1.0	"	
p-isopropylloidene 100	"	
Methylene chloride ND 1.0		
Methyl tert-butyl ether ND 1.0 " " " "	11	
Naphthalene ND 1.0 " " " "	n	
n-Propylbenzene ND 1.0 " " " "	n	
Styrene ND 1.0 " " " "	"	
1,1,1,2-Tetrachloroethane ND 1.0 " " " "	11	
1,1,2,2-Tetrachloroethane ND 1.0 " " " " "	II	
Tetrachloroethene ND 1.0 " " " "	II	
Toluene ND 1.0 " " " "	II .	
1,2,3-Trichlorobenzene ND 1.0 " " " "	н	
1,2,4-Trichlorobenzene ND 1.0 " " " "	"	
1,1,1-Trichloroethane ND 1.0 " " " "	**	
1,1,2-Trichloroethane ND 1.0 " " " "	u	
Trichloroethene 1.8 1.0 " " " "	n	
Trichlorofluoromethane ND 1.0 " " " "	"	
1,2,3-Trichloropropane 1.9 1.0 " " " "	"	
1,2,4-Trimethylbenzene ND 1.0 " " " "	н	
1,3,5-Trimethylbenzene ND 1.0 " " " " "	"	
Vinyl chloride ND 1.0 " " " "	"	



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki Reported: 05/25/07 09:04

#### Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

		CIIA AI							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EB-51607 (0705378-05) Liquid	Sampled: 05/16/07 10:00	Receive	d: 05/16/	07 13:55					
m,p-Xylene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B	
o-Xylene	ND	1.0	I†	"	10	11		11	
Surrogate: Dibromofluoromethan	e	103 %	86-	118	"	"	"	"	
Surrogate: Toluene-d8		103 %	88-	110	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	2	115 %	86-	115	"	"	"	"	
FB-51607 (0705378-06) Liquid	Sampled: 05/16/07 10:05	Receive	d: 05/16/	07 13:55					
Benzene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B	
Bromobenzene	ND	1.0	11	n	н	н	11	"	
Bromochloromethane	ND	1.0	It	"	11	11	n .	**	
Bromodichloromethane	ND	1.0	n	"	n	11	н	11	
Bromoform	ND	1.0	11	11	н	"	11	11	
Bromomethane	ND	1.0	11	0	11	H	11	11	
n-Butylbenzene	ND	1.0	II.	ur .	"	н	11	"	
sec-Butylbenzene	ND	1.0	"	"	11	11		*	
tert-Butylbenzene	ND	1.0	п	н	ıt	11	PT .	n	
Carbon tetrachloride	ND	1.0	11	10	н	17	п	11	
Chlorobenzene	ND	1.0	17	17	н	н	**	11	
Chloroethane	ND	1.0	**	**	11	11		u .	
Chloroform	ND	1.0	н	"	11	11	17	11	
Chloromethane	ND	1.0	н	11	н	u	16	11	
2-Chlorotoluene	ND	1.0	u	0	н	"		11	
4-Chlorotoluene	ND	1.0	11	"	11	"	11	11	
Dibromochloromethane	ND	1.0	H	н	11	**	11	u	
1,2-Dibromo-3-chloropropane	ND	5.0	н	**	"	11		u .	
1,2-Dibromoethane (EDB)	ND	1.0	11	11	,	11	"	"	
Dibromomethane	ND	1.0	11	"	,	11	,,	n	
1,2-Dichlorobenzene	ND ND	1.0	"	"	"	"	**	н	
1,3-Dichlorobenzene	ND	1.0	11	,,	11	,,	11	11	
-	ND ND	1.0	11	,,	11	"	v	11	
1,4-Dichlorobenzene	ND ND	1.0	11	"	11	11		11	
Dichlorodifluoromethane			11	u	и	,,	,,	u .	
1,1-Dichloroethane	ND ND	1.0		,,	н	"	н	u u	
1,2-Dichloroethane	ND	1.0			"	"	,	"	
1,1-Dichloroethene	ND ND	1.0	n.	,,			"	"	
cis-1,2-Dichloroethene	ND ND	1.0		11	"	"		"	
trans-1,2-Dichloroethene	ND	1.0	"			"		"	
1,2-Dichloropropane	ND	1.0	"	"	" "	"	" "	,,	
1,3-Dichloropropane	ND	1.0	"	"	"	" "	,,	"	
2,2-Dichloropropane	ND	1.0			"	"		"	
1,1-Dichloropropene	ND	1.0	н	"	11	"	"		
cis-1,3-Dichloropropene	ND	1.0	11	n	"	"	"	"	



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki Reported: 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-51607 (0705378-06) Liquid	Sampled: 05/16/07 10:05	Receive	d: 05/16	/07 13:55					
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B	
Ethylbenzene	ND	1.0	11	11	н	"	17	"	
Hexachlorobutadiene	ND	1.0	11	N	11	"	17	"	
Isopropylbenzene	ND	1.0	H	"	11	11	H	**	
p-Isopropyltoluene	ND	1.0	11	11	U	ti .	н	11	
Methylene chloride	ND	1.0	11	"	**	"	11	u u	
Methyl tert-butyl ether	ND	1.0	H	it	н	11	17	11	
Naphthalene	ND	1.0	11	"	11	н	"	11	
n-Propylbenzene	ND	1.0	#	11	17	11	н	"	
Styrene	ND	1.0	11	"	11	11	"	u	
1,1,1,2-Tetrachloroethane	ND	1.0	11	**	н	"	11	U	
1,1,2,2-Tetrachloroethane	ND	1.0	U U	11	н	11	11	"	
Tetrachloroethene	ND	1.0	n	"	11	Ħ	0	"	
Toluene	ND	1.0	н	"	11	"	**	**	
1,2,3-Trichlorobenzene	ND	1.0	**	11	11	11	n	"	
1,2,4-Trichlorobenzene	ND	1.0	17	"	**	ıı .	n	"	
1,1,1-Trichloroethane	ND	1.0	11	**	н	P	"	"	
1,1,2-Trichloroethane	ND	1.0	"	**	н	IT	**	"	
Trichloroethene	ND	1.0	11	Ħ	11	11	"	*	
Trichlorofluoromethane	ND	1.0	11	11	11	11	**	"	
1,2,3-Trichloropropane	ND	1.0	11	"	11	11	H	n	
1,2,4-Trimethylbenzene	ND	1.0		"	H	"	n	9	
1,3,5-Trimethylbenzene	ND	1.0	11	*	н	"	11	II.	
Vinyl chloride	ND	1.0	н	н	n	**		"	
m,p-Xylene	ND	1.0	11	11	11	11	"	"	
o-Xylene	ND	1.0	11	11	11	11	ll .	**	
Surrogate: Dibromofluoromethan	e	107 %	86	5-118	"	"	"	"	
Surrogate: Toluene-d8		103 %	88	3-110	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	2	112 %	86	5-115	"	"	"	"	



3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

#### Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-51607 (0705378-07) Liquid	Sampled: 05/16/07 00:00	Receive	d: 05/16/	07 13:55					
Benzene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B	
Bromobenzene	ND	1.0	11	и	n	11	n	11	
Bromochloromethane	ND	1.0	11	н	11	n	It	11	
Bromodichloromethane	ND	1.0	0	11	н	v	n n	u	
Bromoform	ND	1.0	U	11	и	U	11	н	
Bromomethane	ND	1.0	H .	11	H	II.	11	н	
n-Butylbenzene	ND	1.0	н	H	11	H	U	11	
sec-Butylbenzene	ND	1.0	**	н	0	H	tr.	n	
tert-Butylbenzene	ND	1.0	u	п	II .	11	u	11	
Carbon tetrachloride	ND	1.0	U	**	H.	n	u	11	
Chlorobenzene	ND	1.0	"	11	H	11	11	H .	
Chloroethane	ND	1.0	н	11	и	11	11	и	
Chloroform	ND	1.0	#	tr	н	II .	11	н	
Chloromethane	ND	1.0	Ħ	H	11	II .	n	n	
2-Chlorotoluene	ND	1.0	11	н	11	H	H	11	
4-Chlorotoluene	ND	1.0	11	Ħ	11	n	n	11	
Dibromochloromethane	ND	1.0	11	11	11	n	н	TI .	
1,2-Dibromo-3-chloropropane	ND	5.0	11	11	If	11	Ħ	If	
1,2-Dibromoethane (EDB)	ND	1.0	H	11	11	11	n	IT	
Dibromomethane	ND	1.0	n	u	н	11	11	H	
1,2-Dichlorobenzene	ND	1.0	tt	It	н	11	11	н	
1,3-Dichlorobenzene	ND	1.0	11	11	11	U	17	11	
1,4-Dichlorobenzene	ND	1.0	11	H	11	n	It	11	
Dichlorodifluoromethane	ND	1.0	11	н	11	11	It	11	
1,1-Dichloroethane	ND	1.0	11	н	11	Ħ	H	11	
1,2-Dichloroethane	ND	1.0	17	11	17	Ħ	It	Ð	
1,1-Dichloroethene	ND	1.0	17	11	II .	11	н	O.	
cis-1,2-Dichloroethene	ND	1.0	11	11	11	11	11	H	
trans-1,2-Dichloroethene	ND	1.0	Ħ	11	н	11	Ü	n	
1,2-Dichloropropane	ND	1.0	11	u	н	0	0	и	
1,3-Dichloropropane	ND	1.0	н	11	H	0	11	n	
2,2-Dichloropropane	ND	1.0	11	n	11	11	u	n	
1,1-Dichloropropene	ND	1.0	U	n	11	11	If .	11	
cis-1,3-Dichloropropene	ND	1.0	u	н	U	11	If .	11	
trans-1,3-Dichloropropene	ND	1.0	U	н	ti.	11	r r	11	
Ethylbenzene	ND	1.0	11	н	17	11	ıı	n	
Hexachlorobutadiene	ND	1.0	II	н	17	11	n n	n	
Isopropylbenzene	ND	1.0	n	11	11	11	н	O.	
p-Isopropyltoluene	ND	1.0	H	11	11	11	и	H	
Methylene chloride	ND	1.0	н	11	n	11	11	If	
Methyl tert-butyl ether	ND	1.0	tı	11	н	11	11	и	



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

## Volatile Organic Compounds by EPA Method 8260B Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-51607 (0705378-07) Liquid	Sampled: 05/16/07 00:00	Receive	d: 05/16/	07 13:55					
Naphthalene	ND	1.0	μg/L	1	B7E1706	05/17/07	05/18/07	EPA 8260B	
n-Propylbenzene	ND	1.0	11	"	· u	Ħ	11	U	
Styrene	ND	1.0	11	"	u	n	U	Ħ	
1,1,1,2-Tetrachloroethane	ND	1.0	11	11	u	11	11	II	
1,1,2,2-Tetrachloroethane	ND	1.0	11	TI TI	II .	11	1)	н	
Tetrachloroethene	ND	1.0	U	11	и	11	11	и	
Toluene	ND	1.0	11	u	н	11	11	и	
1,2,3-Trichlorobenzene	ND	1.0	11	v	н	11	If	н	
1,2,4-Trichlorobenzene	ND	1.0	11	11	11	11	H	и	
1,1,1-Trichloroethane	ND	1.0	н	11	11	11	н	ıı	
1,1,2-Trichloroethane	ND	1.0	н	n n	11	11	71	n	
Trichloroethene	ND	1.0	н	n	11	Ħ	Ħ	н	
Trichlorofluoromethane	ND	1.0	н	n	11	Ħ	Ħ	н	
1,2,3-Trichloropropane	ND	1.0	н	n	17	н	Ħ	11	
1,2,4-Trimethylbenzene	ND	1.0	n	n	"	н	11	tt	
1,3,5-Trimethylbenzene	ND	1.0	11	n	11	н	11	11	
Vinyl chloride	ND	1.0	11	н	11	n	11	11	
m,p-Xylene	ND	1.0	11	11	"	11	11	11	
o-Xylene	ND	1.0	11	н	**	11	II .	11	
Surrogate: Dibromofluoromethan	e	103 %	86-	118	"	"	"	"	
Surrogate: Toluene-d8		103 %	88-	110	"	"	"	n	
Surrogate: 4-Bromofluorobenzene	?	110%	86-	115	"	"	"	"	



Project: APC

3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

# Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control Sierra Analytical Labs, Inc.

Ì		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (B7E2330-BLK1)				Prepared & An	alyzed: 05/22/	/07			
HC < C8	ND	0.010	mg/L						
C8 <= HC < C9	ND	0.010	n						
C9 <= HC < C10	ND	0.010	н						
C10 <= HC < C11	ND	0.010	Ħ						
C11 <= HC < C12	ND	0.010	11						
C12 <= HC < C14	ND	0.010	II.						
C14 <= HC < C16	ND	0.010	11						
C16 <= HC < C18	ND	0.010	11						
C18 <= HC < C20	ND	0.010	n						
C20 <= HC < C24	ND	0.010	H						
C24 <= HC < C28	ND	0.010	11						
C28 <= HC < C32	ND	0.010	11						
HC >= C32	ND	0.010	n						
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	н						
Surrogate: o-Terphenyl	0.153		"	0.100	153	60-175			
LCS (B7E2330-BS1)				Prepared & An	alyzed: 05/22/	07			
Diesel Range Organics (C10-C24)	0.518	0.050	mg/L	0.500	104	80-120			
LCS (B7E2330-BS2)				Prepared & An	alyzed: 05/22/	07			
Diesel Range Organics (C10-C24)	0.490	0.050	mg/L	0.500	98.0	80-120			
LCS Dup (B7E2330-BSD1)				Prepared & An	alyzed: 05/22/	07			
Diesel Range Organics (C10-C24)	0.508	0.050	mg/L	0.500	102	80-120	1.95	30	



Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sierra Analytical Labs, Inc.

#### Spike %REC RPD Reporting Source Result Limit Units Level Result %REC Limits RPD Limit Notes Analyte

Blank (B7E1706-BLK1)				Prepared & Analyzed. 05/17/07
Benzene	ND	1.0	μg/L	
Bromobenzene	ND	1.0	D	
Bromochloromethane	ND	1.0	If	
Bromodichloromethane	ND	1.0	If	
Bromoform	ND	1.0	н	
Bromomethane	ND	1.0	н	
n-Butylbenzene	ND	1.0	н	
sec-Butylbenzene	ND	1.0	11	
ert-Butylbenzene	ND	1.0	11	
Carbon tetrachloride	ND	1.0	11	
Chlorobenzene	ND	1.0	u	
Chloroethane	ND	1.0	n	
Chloroform	ND	1.0	u	
Chloromethane	ND	1.0	11	
2-Chlorotoluene	ND	1.0	11	
-Chlorotoluene	ND	1.0	н	
Dibromochloromethane	ND	1.0	н	
,2-Dibromo-3-chloropropane	ND	5.0	н	
,2-Dibromoethane (EDB)	ND	1.0	n	
Pibromomethane	ND	1.0	h	
2-Dichlorobenzene	ND	1.0	"	
3-Dichlorobenzene	ND	1.0	11	
,4-Dichlorobenzene	ND	1.0	11	
Dichlorodifluoromethane	ND	1.0	11	
1-Dichloroethane	ND	1.0	11	
2-Dichloroethane	ND	1.0	11	
1-Dichloroethene	ND	1.0	u	
is-1,2-Dichloroethene	ND	1.0	u	
ans-1,2-Dichloroethene	ND	1.0	11	
,2-Dichloropropane	ND	1.0	0	
1,3-Dichloropropane	ND	1.0	17	
2,2-Dichloropropane	ND	1.0	11	
1,1-Dichloropropene	ND	1.0	11	
cis-1,3-Dichloropropene	ND	1.0	17	
rans-1,3-Dichloropropene	ND	1.0	17	
Ethylbenzene	ND	1.0	n	
lexachlorobutadiene	ND	1.0	u	



sec-Butylbenzene

tert-Butylbenzene

Worley Parsons Komex 3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki Reported: 05/25/07 09:04

RPD

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Sierra Analytical Labs, Inc.

Spike

Source

%REC

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B7E1706 - EPA 5030B P &	T									
Blank (B7E1706-BLK1)				Prepared of	& Analyze	ed: 05/17/0	07			
Isopropylbenzene	ND	1.0	μg/L							
p-Isopropyltoluene	ND	1.0	11							
Methylene chloride	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	11							
Naphthalene	ND	1.0	u							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	11							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	11							
Tetrachloroethene	ND	1.0	н							
Toluene	ND	1.0	n							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	н							
1,1,1-Trichloroethane	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	v							
1,2,3-Trichloropropane	ND	1.0	11							
1,2,4-Trimethylbenzene	ND	1.0	11							
1,3,5-Trimethylbenzene	ND	1.0	11							
Vinyl chloride	ND	1.0	11							
m,p-Xylene	ND	1.0	н							
o-Xylene	ND	1.0	"							
Surrogate: Dibromofluoromethane	52.8		"	50.0		106	86-118			
Surrogate: Toluene-d8	49.2		"	50.0		98.4	88-110			
Surrogate: 4-Bromofluorobenzene	57.2		"	50.0		114	86-115			
Blank (B7E1706-BLK2)				Prepared:	05/17/07	Analyzed	: 05/18/07			
Benzene	ND	1.0	μg/L							
Bromobenzene	ND	1.0	н							
Bromochloromethane	ND	1.0	и							
Bromodichloromethane	ND	1.0	н							
Bromoform	ND	1.0	**							
Bromomethane	ND	1.0	**							
n-Butylbenzene	ND	1.0	11							

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1.0

1.0

ND

ND



3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki

Reported:

05/25/07 09:04

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sierra Analytical Labs, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Timely to							 110100
Batch B7E1706 - EPA 5030B P & T							
Blank (B7E1706-BLK2)				Prepared: 05/1	7/07 Analyz	ed: 05/18/07	
Carbon tetrachloride	ND	1.0	μg/L		·		
Chlorobenzene	ND	1.0	11				
Chloroethane	ND	1.0	"				
Chloroform	ND	1.0	"				
Chloromethane	ND	1.0	"				
2-Chlorotoluene	ND	1.0	н				
4-Chlorotoluene	ND	1.0	"				
Dibromochloromethane	ND	1.0	n				
1,2-Dibromo-3-chloropropane	ND	5.0	n				
1,2-Dibromoethane (EDB)	ND	1.0	11				
Dibromomethane	ND	1.0	"				
1,2-Dichlorobenzene	ND	1.0	н				
1,3-Dichlorobenzene	ND	1.0	**				
1,4-Dichlorobenzene	ND	1.0	**				
Dichlorodifluoromethane	ND	1.0	"				
1,1-Dichloroethane	ND	1.0	11				
1,2-Dichloroethane	ND	1.0	"				
1,1-Dichloroethene	ND	1.0	n				
cis-1,2-Dichloroethene	ND	1.0	11				
trans-1,2-Dichloroethene	ND	1.0	"				
1,2-Dichloropropane	ND	1.0	и				
1,3-Dichloropropane	ND	1.0	11				
2,2-Dichloropropane	ND	1.0	17				
1,1-Dichloropropene	ND	1.0	"				
cis-1,3-Dichloropropene	ND	1.0	n				
trans-1,3-Dichloropropene	ND	1.0	u				
Ethylbenzene	ND	1.0	"				
Hexachlorobutadiene	ND	1.0	н				
Isopropylbenzene	ND	1.0	**				
p-lsopropyltoluene	ND	1.0	"				
Methylene chloride	ND	1.0	**				
Methyl tert-butyl ether	ND	1.0	н				
Naphthalene	ND	1.0	"				
n-Propylbenzene	ND	1.0	"				
Styrene	ND	1.0	"				
1,1,2-Tetrachloroethane	ND	1.0	"				
1,1,2,2-Tetrachloroethane	ND	1.0	"				



400

3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki **Reported:** 05/25/07 09:04

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sierra Analytical Labs, Inc.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (B7E1706-BLK2)	Prepared: 05/17/07 Analyzed: 05/18/07												
Tetrachloroethene	ND	1.0	μg/L										
Toluene	ND	1.0	11										
1,2,3-Trichlorobenzene	ND	1.0	U										
1,2,4-Trichlorobenzene	ND	1.0	U										
1,1,1-Trichloroethane	ND	1.0	U										
1,1,2-Trichloroethane	ND	1.0	t†										
Trichloroethene	ND	1.0	11										
Trichlorofluoromethane	ND	1.0	н										
1,2,3-Trichloropropane	ND	1.0	11										
1,2,4-Trimethylbenzene	ND	1.0	11										
1,3,5-Trimethylbenzene	ND	1.0	11										
Vinyl chloride	ND	1.0	11										
m,p-Xylene	ND	1.0	11										
o-Xylene	ND	1.0	11										
Surrogate: Dibromofluoromethane	51.9		"	50.0	104	86-118							
Surrogate: Toluene-d8	52.7		n	50.0	105	88-110							
Surrogate: 4-Bromofluorobenzene	57.0		"	50.0	114	86-115							
LCS (B7E1706-BS1)				Prepared & Ar	nalyzed: 05/17/	07							
Benzene	40.7	1.0	μg/L	50.0	81.4	80-120							
Chlorobenzene	57.1	1.0	н	50.0	114	80-120							
1,1-Dichloroethene	46.7	1.0	н	50.0	93.4	80-120							
Toluene	45.1	1.0	ti	50.0	90.2	80-120							
Trichloroethene	47.1	1.0	**	50.0	94.2	80-120							
LCS (B7E1706-BS2)		Prepared & Analyzed: 05/17/07											
Benzene	43.3	1.0	μg/L	50.0	86.6	80-120							
Chlorobenzene	57.1	1.0	11	50.0	114	80-120							
1,1-Dichloroethene	47.9	1.0	11	50.0	95.8	80-120							
Toluene	45.3	1.0	"	50.0	90.6	80-120							
Trichloroethene	44.4	1.0	U	50.0	88.8	80-120							



3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki Reported:

05/25/07 09:04

# Volatile Organic Compounds by EPA Method 8260B - Quality Control Sierra Analytical Labs, Inc.

	-	Reporting	** '	Spike	Source	AVDEG	%REC	222	RPD	<b>NY</b> .	
Analyte	Result	Limit Units		Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch B7E1706 - EPA 5030B P & T						-					
Matrix Spike (B7E1706-MS1)	Sour	ce: 070537	8-07	Prepared:	05/17/07						
Benzene	40.2	1.0	μg/L	50.0	ND	80.4	37-151				
Chlorobenzene	56.5	1.0	11	50.0	ND	113	37-160				
1,1-Dichloroethene	47.0	1.0	11	50.0	ND	94.0	50-150				
Toluene	44.5	1.0	н	50.0	ND	89.0	47-150				
Trichloroethene	50.4	1.0	н	50.0	ND	101	71-157				
Matrix Spike (B7E1706-MS2)	Sour	ce: 070537	7-09	Prepared:	05/17/07						
Benzene	40.3	1.0	μg/L	50.0	ND	80.6	37-151				
Chlorobenzene	58.2	1.0	н	50.0	ND	116	37-160				
1,1-Dichloroethene	46.0	1.0	u	50.0	ND	92.0	50-150				
Toluene	43.3	1.0	11	50.0	ND	86.6	47-150				
Trichloroethene	50.2	1.0	н	50.0	ND	100	71-157				
Matrix Spike Dup (B7E1706-MSD1)	Sour	ce: 070537	8-07	Prepared:	05/17/07						
Benzene	42.7	1.0	μg/L	50.0	ND	85.4	37-151	6.03	30		
Chlorobenzene	60.4	1.0	**	50.0	ND	121	37-160	6.67	30		
1,1-Dichloroethene	49.4	1.0	н	50.0	ND	98.8	50-150	4.98	30		
Toluene	47.0	1.0	n	50.0	ND	94.0	47-150	5.46	30		
Trichloroethene	54.0	1.0	11	50.0	ND	108	71-157	6.90	30		
Matrix Spike Dup (B7E1706-MSD2)	Sour	Source: 0705377-09			Prepared: 05/17/07 Analyzed: 05/18/07						
Benzene	36.0	1.0	μg/L	50.0	ND	72.0	37-151	11.3	30		
Chlorobenzene	50.2	1.0	11	50.0	ND	100	37-160	14.8	30		
1,1-Dichloroethene	40.8	1.0	11	50.0	ND	81.6	50-150	12.0	30		
Toluene	38.3	1.0	11	50.0	ND	76.6	47-150	12.3	30		
Trichloroethene	43,3	1.0	н	50.0	ND	86.6	71-157	14.8	30		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



3901 Via Oro Avenue, Suite 100 Long Beach CA, 90810-1800 Project: APC

Project Number: H0287D030 Project Manager: Lee Paprocki

Reported:

05/25/07 09:04

#### **Notes and Definitions**

S-03

Surrogate diluted out.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dгу

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

# A

#### SIERRAANALYTICAL

TEL: 949•348•9389 FAX: 949•348•9115

26052 Merit Circle• Suite 105•Laguna Hills, CA•92653

CHAIN OF CUSTODY	RECORD
	3
	<b>*</b>

Date: 5, 16, 07 Page 1 of \_\_\_\_

Lab Project No.: 0705378

Client: Worky Parsons Komex Client Project ID:									Analysis Requested  Geotracker EDD Info:										
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- Long Death, CA		100010000					Ø												
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